Service Manual

AOC 显示器维修手册

Model: e2450Swd



Revision List

Version	Release Date	Revision History	TPV Model Name
A00	Jul-29-2011	Initial release	TDAMN22DAHA6HAE
			TDAMN22DAHA6HRE
			TDAMN22DAGA6HNE
			TDBMN22DAHA1HCE
			TDBMN22DAHA1H6E
			TDAMN22DAHA6HNE
			TDBMN22DAHA1HNE
A01	Dec-01-2011	Add new models	TDB2N22DAHA1HNE
			TDB2N22EAHA1HNE
			TDBMN22EAHA1HNE
			TDBMN22EAHA6HNE
A02	Jan-07-2013	Add new models	TDCWN22MAHA1HNJ
			TDC2N22KAHE6HNJ

CONTENTS

1. Monitor Specifications

1.1 Product Features

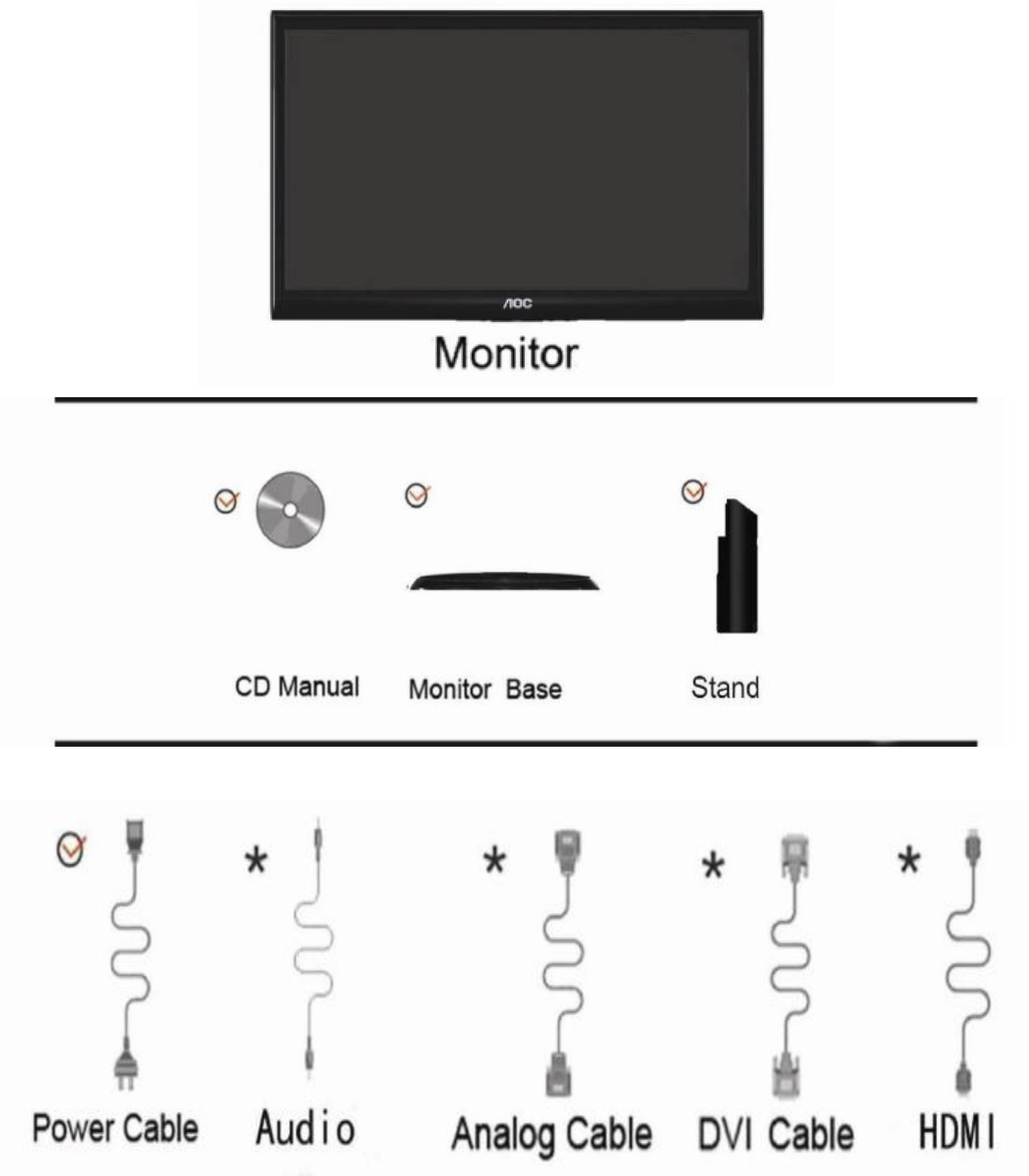
Panel	Model number	e2450Swd	
	Driving system	TFT Color LCD	
	Viewable Image Size	59.8cm diagonal	
	Pixel pitch	0.2715mm(H) x 0.2715mm(V)	
	Video	R, G, B Analog Interface & Digital Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	148.5MHz	
Resolution	Horizontal scan range	30 kHz – 83 kHz	
	Horizontal scan Size(Maximum)	521.28mm	
	Vertical scan range	55 Hz - 75 Hz	
	Vertical scan Size(Maximum)	293.22mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-Sub 15pin,DVI-24pin	
	Input Video Signal	Analog: 0.7Vp-p(standard),75 OHM, Positive& DVI-D Digital Interface (TMDS)	
	Power Source	100-240V~ , 50/60Hz	
	Power Consumption	Active < 30W(typical)	
		Standby < 0.5 W	
	Off timer	00-24 hrs	
Physical Characteristics	Connector Type	15-pin Mini D-Sub & 24-pin DVI	
	Signal Cable Type	Detachable	
	Dimensions & Weight:	Height (with base)	413.95mm
		Width	569.22mm
		Depth	205mm
		Weight (monitor only)	4.202kg
Environmental	Temperature:	Operating	0° to 40°
		Non-Operating	-25° to 55°
	Humidity:	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 93% (non-condensing)
	Altitude:	Operating	0~ 3658m (0~ 12000 ft)
		Non-Operating	0~ 12192m (0~ 40000 ft)

1.2 Factory Preset Mode

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(KHZ)	VERTICAL FREQUENCY(KHZ)
VGA	640×480 @60Hz	31.469	59.940
VGA	640×480 @67Hz	35.000	66.667
VGA	640×480 @72Hz	37.861	72.809
VGA	640×480 @75Hz	37.500	75.000
Dos-mode	720×400 @70Hz	31.469	70.087
SVGA	800×600 @56Hz	35.156	56.250
SVGA	800×600 @60Hz	37.879	60.317
SVGA	800×600 @72Hz	48.077	72.188
SVGA	800×600 @75Hz	46.875	75.000
SVGA	832×624 @75Hz	49.725	74.551
XGA	1024×768 @60Hz	48.363	60.004
XGA	1024×768 @70Hz	56.476	70.069
XGA	1024×768 @75Hz	60.023	75.029
XGA	1024×768 @75Hz	60.241	74.927
XGA	1280×720 @60Hz	45.000	60.000
***	1280×960 @60Hz	60.000	60.000
SXGA	1280×1024 @60Hz	63.981	60.020
SXGA	1280×1024 @75Hz	79.976	75.025
WXGA+	1440×900 @60Hz	55.935	59.887
WSXGA	1680X1050 @60Hz	65.290	59.954
HD	1920×1080 @60Hz	67.500	60.000

2. Setup

2.1 Contents in Box



Note: Not all signal cables (HDMI cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

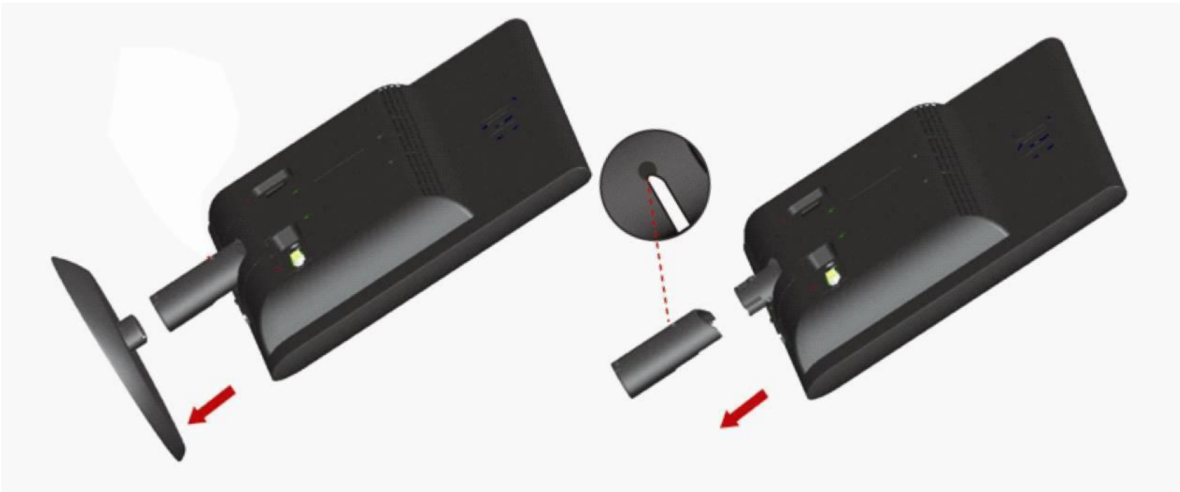
2.2 Setup Stand & Base

Please setup or remove the base following the steps as below.

Setup:



Remove:

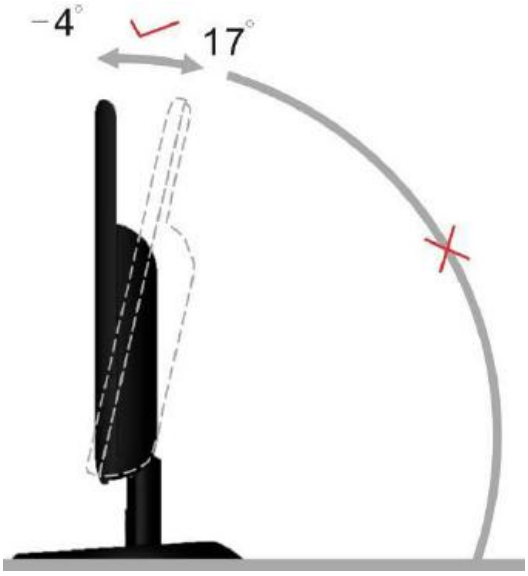


2.3 Adjusting Viewing Angle

For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.

Hold the stand so you will not topple the monitor when you change the monitor's angle.

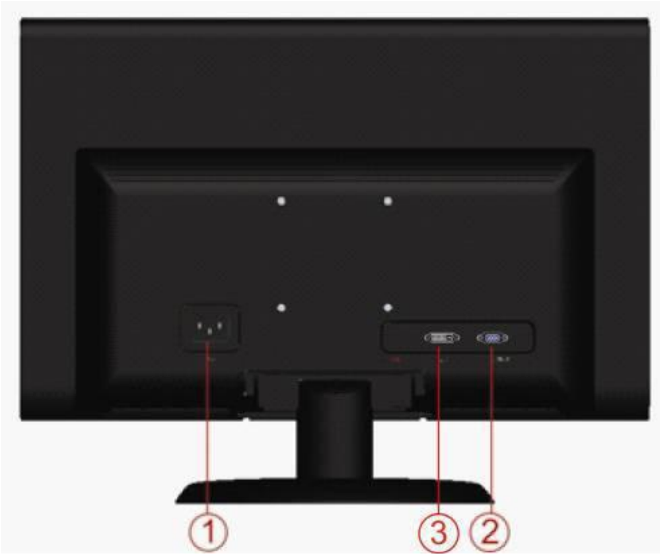
You are able to adjust the monitor's angle from -4° to 17°.



Note: Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen

2.4 Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



1. Power
2. Analog (DB-15 VGA cable)
3. DVI

To protect equipment, always turn off the PC and LCD monitor before connecting.

1. Connect the power cable to the AC port on the back of the monitor.
2. Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer’s D-Sub port.
3. Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer’s DVI port.
4. Turn on your monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

2.5 Wall Mounting

Preparing to Install An Optional Wall Mounting Arm.





This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

1. Remove the base.

2. Follow the manufacturer's instructions to assemble the wall mounting arm.

3. Place the wall mounting arm onto the back of the monitor. Line up the holes of the arm with the holes in the back of the monitor.

4. Insert the 4 screws into the holes and tighten.

5. Reconnect the cables. Refer to the user's manual that came with the optional wall mounting arm for instructions on attaching it to the wall.

Note : VESA mounting screw holes are not available for all models, please check with the dealer or official department of AOC.

3. Operation Instructions

3.1 Hotkeys



Power

Press the Power button to turn on/off the monitor.

< Eco (DCR)/-

Press the Eco key continuously to select the Eco mode of brightness and DCR/I-Care on when there is no OSD. (Eco mode hot key may not be available in all models).

4:3 or Wide/+

When there is no OSD, press + continuously to change 4:3 or wide image ratio. (If the product screen size is 4:3 or input signal resolution is wide format, the hot key is disable to adjust.)

Auto / Exit

When there is no OSD, press Auto/Source button continuously about 3 second to do auto configure.

Source hot key

When the OSD is closed, press Source button will be Source hot key function. Press Source button continuously to select the input source showed in the message bar press Menu/Enter button to change to the source selected.

3.2 OSD Setting

Basic and simple instruction on the control keys.



1) Press the **MENU-button** to activate the OSD window.

2) Press **- or +** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it. press **- or +** to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU-button** to activate it.

3) Press **- or +** to change the settings of the selected function. Press **AUTO** to exit. If you want to adjust any other function, repeat steps 2-3.

4) OSD Lock Function: To lock the OSD, press and hold the **MENU button** while the monitor is off and then press **power button** to turn the monitor on. To un-lock the OSD - press and hold the **MENU button** while the monitor is off and then press **power button** to turn the monitor on.

Notes:

1) If the product has only one signal input, the item of "Input Select" is disable to adjust.

2) If the product screen size is 4:3 or input signal resolution is wide format, the item of "Image Ratio" is disable to adjust.

3) One of DCR, Color Boost, and Picture Boost functions is active, the other two function is turned off accordingly.

Luminance

1. Press **MENU** (Menu) to display menu.



2. Press **−** or **+** to select  (Luminance), and press **MENU** to enter.



3. Press **−** or **+** to select submenu, and press **MENU** to enter.



4. Press **−** or **+** to adjust.



5. Press **AUTO** to exit.



	Brightness	00-100		Backlight Adjustment
	Contrast	00-100		Contrast from Digital-register.
	Eco mode	Standard		Standard Mode
		Text		Text Mode
		Internet		Internet Mode
		Game		Game Mode
		Movie		Movie Mode
		Sports		Sports Mode
	Gamma	Gamma1		Adjust to Gamma1
		Gamma2		Adjust to Gamma 2
		Gamma3		Adjust to Gamma 3
	DCR	Off		Disable dynamic contrast ratio
		On		Enable dynamic contrast ratio

Image Setup

1. Press MENU (Menu) to display menu.



2. Press − or + to select (Image Setup), and press MENU to enter.



3. Press − or + to select submenu, and press MENU to enter.



4. Press − or + to adjust.



5. Press **AUTO** to exit.



	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	Sharpness	0-100	Adjust picture sharpness
	H.Position	0-100	Adjust the horizontal position of the picture.
	V.Position	0-100	Adjust the vertical position of the picture.

Color Setup

1. Press **MENU** (Menu) to display menu.



2. Press **−** or **+** to select  (Color Setup) , and press **MENU** to enter.



3. Press − or + to select submenu, and press MENU to enter.



4. Press − or + to adjust.



5. Press AUTO to exit.



	Color Temp.	Warm		Recall Warm Color Temperature from EEPROM.
		Normal		Recall Normal Color Temperature from EEPROM.
		Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User	Red	Red Gain from Digital-register
			Green	Green Gain Digital-register.
			Blue	Blue Gain from Digital-register
	DCB Mode	Full Enhance	on or off	Disable or Enable Full Enhance Mode
		Nature Skin	on or off	Disable or Enable Nature Skin Mode
		Green Field	on or off	Disable or Enable Green Field Mode
		Sky-blue	on or off	Disable or Enable Sky-blue Mode
		AutoDetect	on or off	Disable or Enable AutoDetect Mode
	DCB Demo		On or off	Disable or Enable Demo

Picture Boost

1. Press MENU (Menu) to display menu.



2. Press − or + to select  (Picture Boost), and press MENU to enter.



3. Press − or + to select submenu, and press MENU to enter.

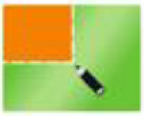


4. Press − or + to adjust.



5. Press **AUTO** to exit.



	Frame Size	14-100	Adjust Frame Size
	Brightness	00-100	Adjust Frame Brightness
	Contrast	00-100	Adjust Frame Contrast
	H. position	00-100	Adjust Frame horizontal Position
	V.position	00-100	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame

OSD Setup

1. Press **MENU** (Menu) to display menu.



2. Press **−** or **+** to select  (OSD Setup), and press **MENU** to enter.



3. Press − or + to select submenu, and press **MENU** to enter.



4. Press − or + to adjust.



5. Press **AUTO** to exit.



	H.Position	00-100	Adjust the horizontal position of OSD
	V.Position	00-100	Adjust the vertical position of OSD
	Timeout	05-120	Adjust the OSD Timeout
	Transparence	00-100	Adjust the transparence of OSD
	Language		Select the OSD language

Extra

1. Press **MENU** (Menu) to display menu.



2. Press − or + to select  (Extra), and press **MENU** to enter.



3. Press − or + to select submenu, and press **MENU** to enter.



4. Press − or + to adjust.



5. Press **AUTO** to exit.



	Input Select	Auto	Select to Auto Detect input signal
		Analog	Select Analog Signal Source as Input
		DVI	Select Analog Signal Source as Input
	Auto Config	yes or no	Auto adjust the picture to default
	Off timer	00-24hrs	Select DC off time
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Reset	Yes or no	Reset the menu to default
	Information		Show the information of the main image and sub-image source

Exit

1. Press **MENU** (Menu) to display menu.



2. Press − or + to select  (Exit), and press **MENU** to enter.

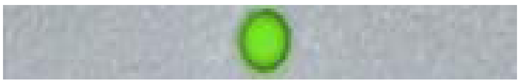


3. Press **AUTO** to exit.



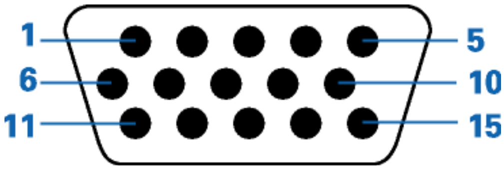
	Exit		Exit the main OSD

3.3 LED Indicator

status	LED Color	
Full Power Mode	Green or Blue	
Active-off Mode	Orange or Red	

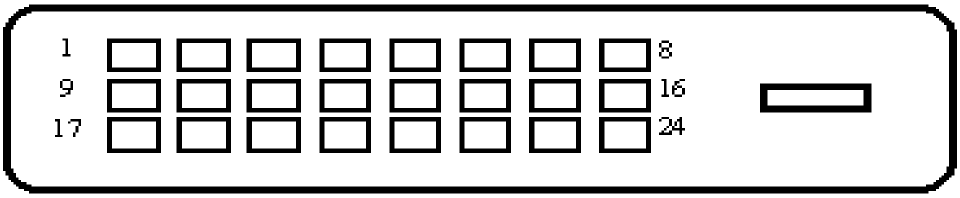
4. Interface description

4.1 D-Sub 15pin Interface



Pin No.	Description	Pin No.	Description
1.	Video-Red	9.	+5V
2.	Video-Green	10.	Ground
3.	Video-Blue	11.	N.C.
4.	N.C.	12.	DDC-Serial data
5.	Detect Cable	13.	H Sync
6.	GND-R	14.	V Sync
7.	GND-G	15.	DDC-Serial clock
8.	GND-B		

4.2 DVI Interface



Pin No.	Description	Pin No.	Description
1.	TMDS Data 2-	13.	TMDS Data 3+
2.	TMDS Data 2+	14.	+5V Power
3.	TMDS Data 2/4 Shied	15.	Ground (for +5V)
4.	TMDS Data 4-	16.	Hot Plug Detect
5.	TMDS Data 4+	17.	TMDS Data 0+
6.	DDC Clock	18.	TMDS Data 0-
7.	DDC Data	19.	TMDS Data 0/5 Shield
8.	N.C.	20.	TMDS Data 5-
9.	TMDS Data 1-	21.	TMDS Data 5+
10.	TMDS Data 1+	22.	TMDS Clock Shield
11.	TMDS Data 1/3 Shield	23.	TMDS Clock+
12.	TMDS Data 3-	24.	TMDS Clock-

4.3 LVDS pin assignment

Pin#	Signal Name	Pin#	Signal Name
1	RxOIN0-	2	RxOIN0+
3	RxOIN1-	4	RxOIN1+
5	RxOIN2-	6	RxOIN2+
7	Power Ground	8	RxOCLKIN-
9	RxOCLKIN+	10	RxOIN3-
11	RxOIN3+	12	RxEIN0-
13	RxEIN0+	14	Power Ground
15	RxEIN1-	16	RxEIN1+
17	Power Ground	18	RxEIN2-
19	RxEIN2+	20	RxECLKIN-
21	RxECLKIN+	22	RxEIN3-
23	RxEIN3+	24	Power Ground
25	NC (for AUO test only. Do not connect)	26	NC (for AUO test only. Do not connect)
27	NC (for AUO test only. Do not connect)	28	VDD Power +5V
29	VDD Power +5V	30	VDD Power +5V

4.4 Plug and Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.

5. Panel Feature

LCM236HGE02A01130F(CMI： M236HGE-L20) is a 23.6" TFT Liquid Crystal Display module with WLED Backlight unit and 30Pins 2ch-LVDS interface. This module supports 1920 x 1080 Full HD mode and can display up to 16.7M colors.

FEATURES

- Contrast ratio 1000:1
- Response time 5ms.
- Brightness 250nits(Typ.)
- Color saturation NTSC 72%.
- WXGA (1920 x 1080 pixels) resolution.
- LVDS (Low Voltage Differential Signaling) interface.
- RoHS compliance.

5.1 General Features

The following items are characteristics summary on the table under 25℃ condition:

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	609.7(24.0")
Active Area	[mm]	531.36 (H) x 298.89 (V)
Pixels H x V		1920(x3) x 1080
Pixel Pitch	[um]	276.75 (per one triad) ×276.75
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		VA Mode, Normally Black
White Luminance (Center)	[cd/m^2]	250 cd/m^2 (Typ.)
Contrast Ratio		5000 (Typ.)
Optical Response Time	[msec]	12ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	+5.0 V
Power Consumption (VDD line + LED line)	[Watt]	26.3(Typ.) (without inverter, all white pattern)
Weight	[g]	2050 (Typ.)
Physical Size	[mm]	556.0 (W) x 323.2 (H) x 11.5 (D) typ
Electrical Interface		Dual channel LVDS
Support Color		16.7M colors (RGB 8-bit)
Surface Treatment		Anti-Glare, 3H
Temperature Range Operating Storage (Shipping)	 [°C] [°C]	 0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance
TCO Compliance		TCO 5.1 Compliance

5.2 Absolute Maximum Ratings

Absolute maximum ratings of the module are as follows:

Item	Symbol	Value			Unit	Note
		Min	Typ	Max		
Power Supply Voltage	Vcc	-0.3	-	+6	V	(1)
Logic Input Voltage	Vin	-0.3	-	+3.6	V	(1)
Light bar DC forward current	If	-	60	63	mA	(1)
Light bar Peak pulse current	IP	-	-	180	mA	(1)
LED Reverse voltage	Vr	-	-	5	V	(1)
Operating Ambient Temperature	Top	0	-	+50	℃	(2)(3)
Storage Temperature	T_{ST}	-20	-	+60	℃	(2)

Note (1) Permanent damage to the device may occur if maximum values are exceeded. Function operation should be restricted to the conditions described under Normal Operating Conditions

Note (2)

(a) 90 %RH Max. (Ta <= 40 ℃).

(b) Wet-bulb temperature should be 39 ℃ Max. (Ta > 40 ℃).

(c) No condensation

Note (3) The temperature of panel surface should be 0 ℃ min. and 60 ℃ max

5.3. Electrical Characteristics

5.3.1. LCD ELETRONICS SPECIFICATION

Input power specifications are as follows:

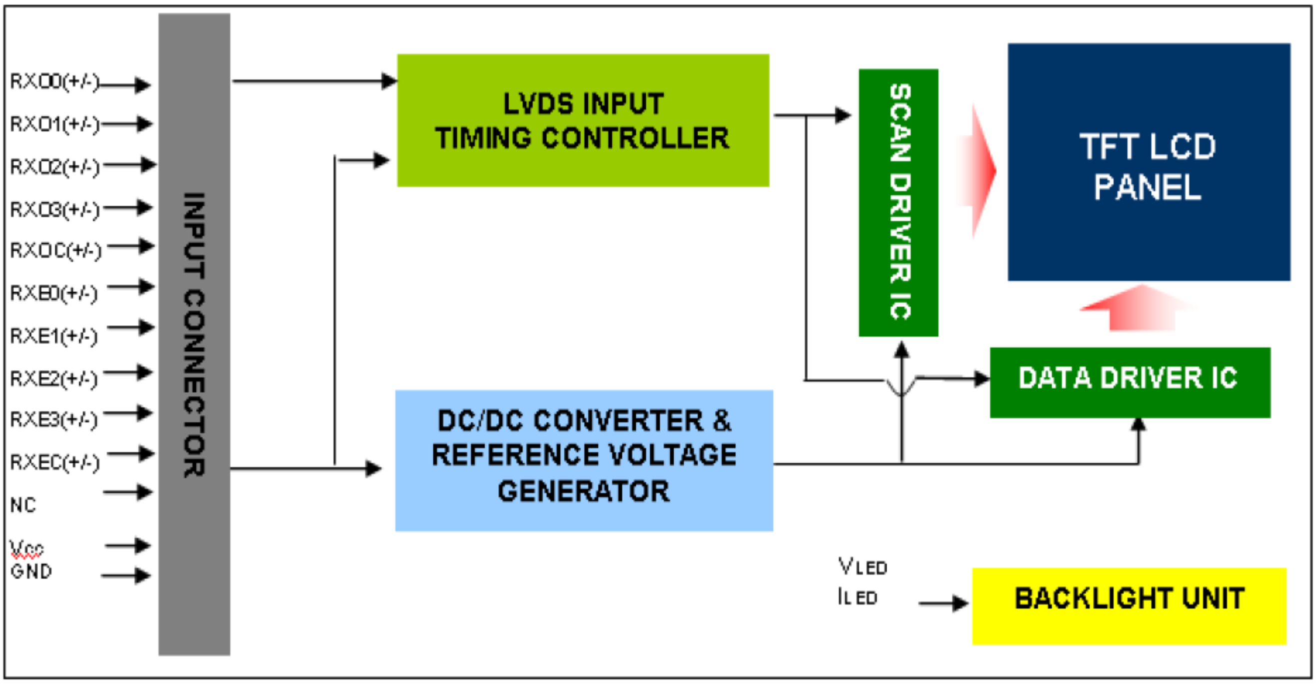
Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Power Supply Voltage	V_{cc}	4.5	5	5.5	V	
Ripple Voltage	V_{rp}	-	-	300	mV	(6)
Rush Current	I_{rush}		1.52	3	A	(2)
Power Supply Current—White			0.41	0.53	A	(3)a
Power Supply Current--Black			0.98	1.27	A	(3)b
Power Supply Current—H Stripe			1.05	1.3	A	(3)c
Power Consumption	PLCD		(4.9)	(6.35)	Watt	(4)
LVDS differential input voltage	VID	200	-	600	mV	
LVDS common input voltage	VIC	1.0	1.2	1.4	V	
Logic High Input Voltage	VIH	2.64		3.6	V	
Logic Low Input Voltage	VIL	0		0.66	V	

5.3.2. BACKLIGHT UNIT (LED matrix is 16S4P) :

Parameter guideline for LED driving is under stable conditions at 25℃ (Room Temperature):

Parameter	Symbol	Value			Unit	Note
		Min	Typ.	Max.		
Light Bar Input Voltage	V_{LED}	43.6	51.2	58.8	V_{DC}	(Duty 100%)
Light Bar Input Current	ILE□	58	60	63	mA DC	(Duty 100%) per string (1)
Power Consumption	P_{LED}	-□-	12.2	14.8	W	(2)
LED Life Time	L_{BL}	30000	--	--	Hrs	(3)
IFP LED Peak forward current	I_{LED}	--	--	180	mA DC	(4)

5.4 Panel Block Diagram



5.5 OPTICAL CHARACTERISTICS

(1)TEST CONDITIONS

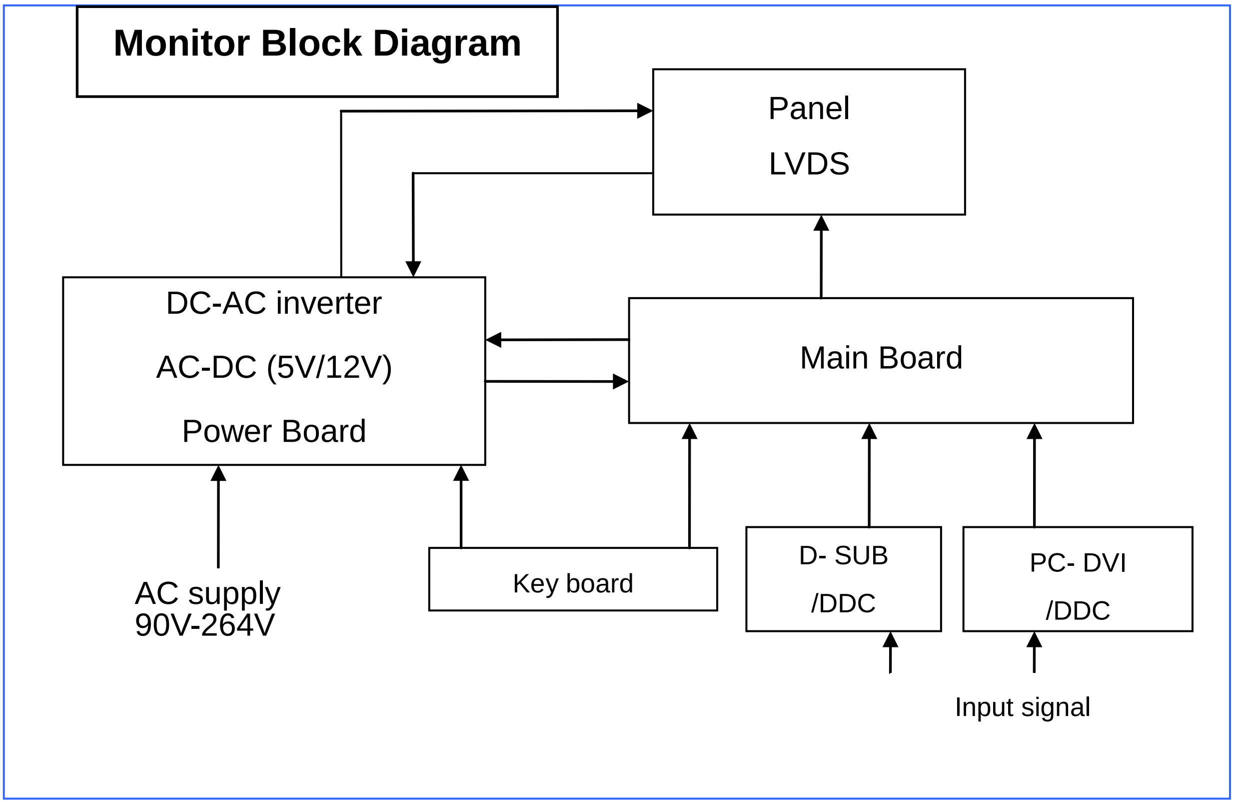
Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	°C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	V_{CC}	5	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Light Bar Input Voltage	V_{LB}	51.2	VDC
Light Bar Input Current	I_{LB}	60	mADC
Duty	D	100	%

(2) OPTICAL SPECIFICATIONS

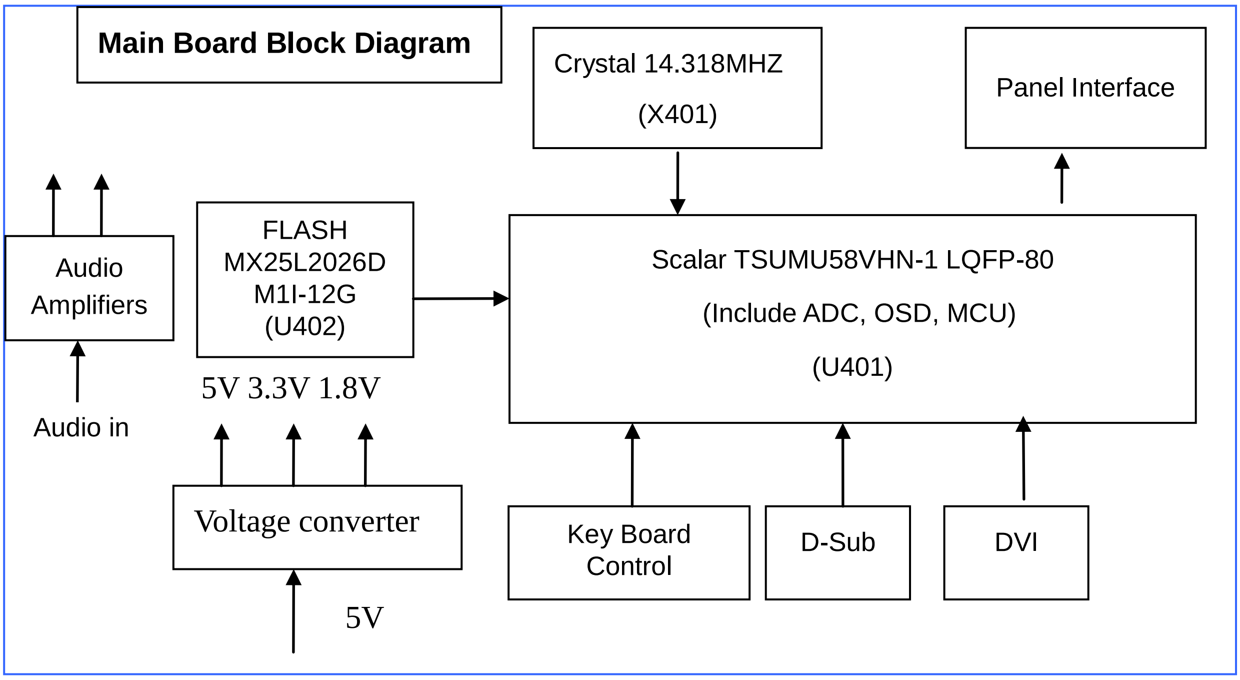
Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity (CIE 1931)	Red	Rx	θ_X=0°, θ_Y =0° R=G=B=255 Grayscale	Typ – 0.03	0.641	Typ + 0.03	
		Ry			0.338		
	Green	Gx			0.311		
		Gy			0.619		
	Blue	Bx			0.159		
		By			0.059		
	White	Wx			0.313		
		Wy			0.329		
Center Luminance of White (Center of Screen)		L_C		200	250	---	cd/m^2
Contrast Ratio		CR		700	1000	---	-
Response Time		T_R	θ_X=0°, θ_Y =0°	---	1.3	2.2	ms
		T_F		---	3.7	5.5	ms
White Variation		δW	θ_X=0°, θ_Y =0°	75	80	--	-
Viewing Angle	Horizontal	θx- + θx+	CR ≧ 10 BM-5A	150	170	---	Deg.
	Vertical	θy- + θy+		140	160	---	
	Horizontal	θx- + θx+	CR ≧ 5 BM-5A	160	178	---	
	Vertical	θy- + θy+		150	170	---	

6. Block Diagram

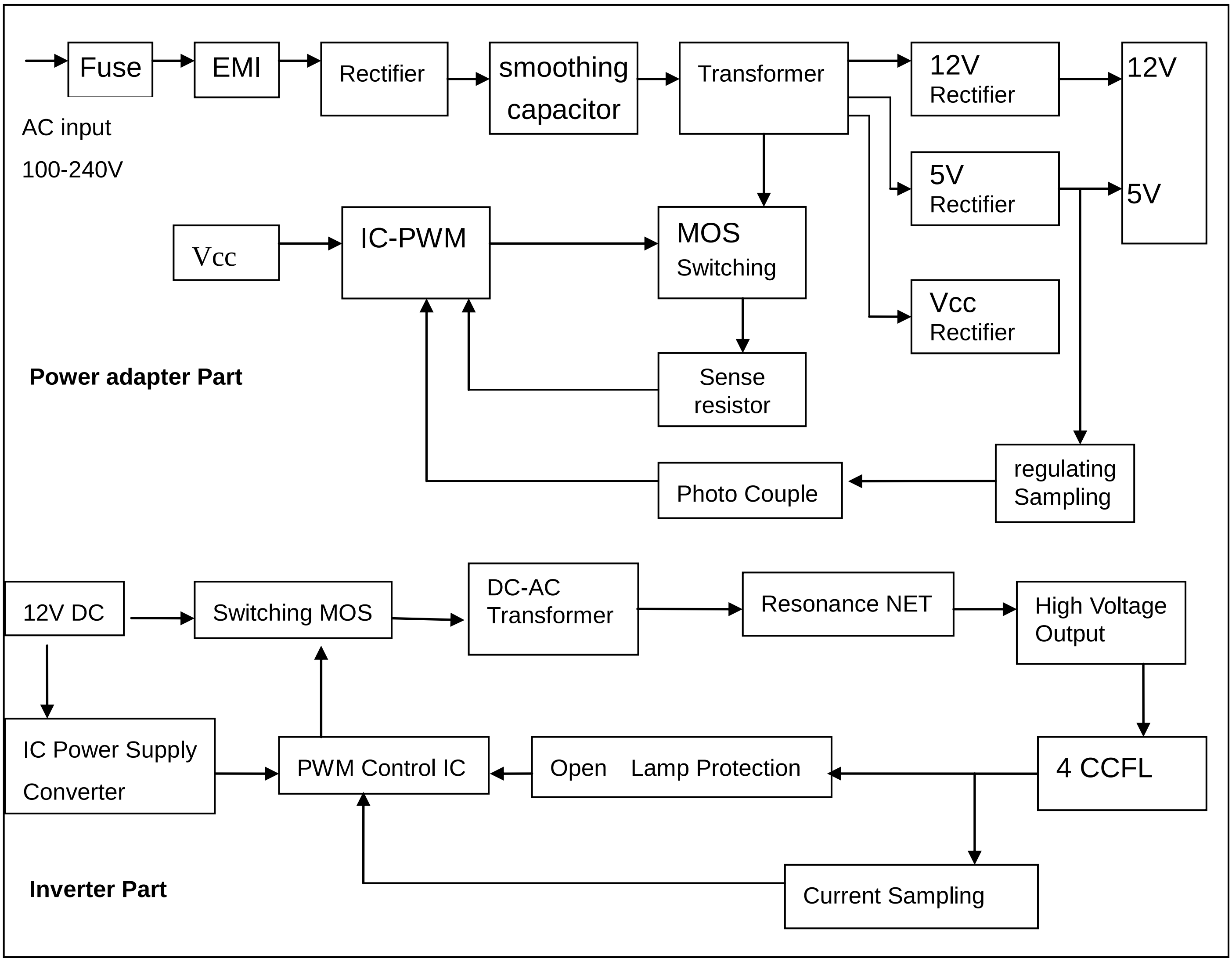
6.1 LCD Block Diagram



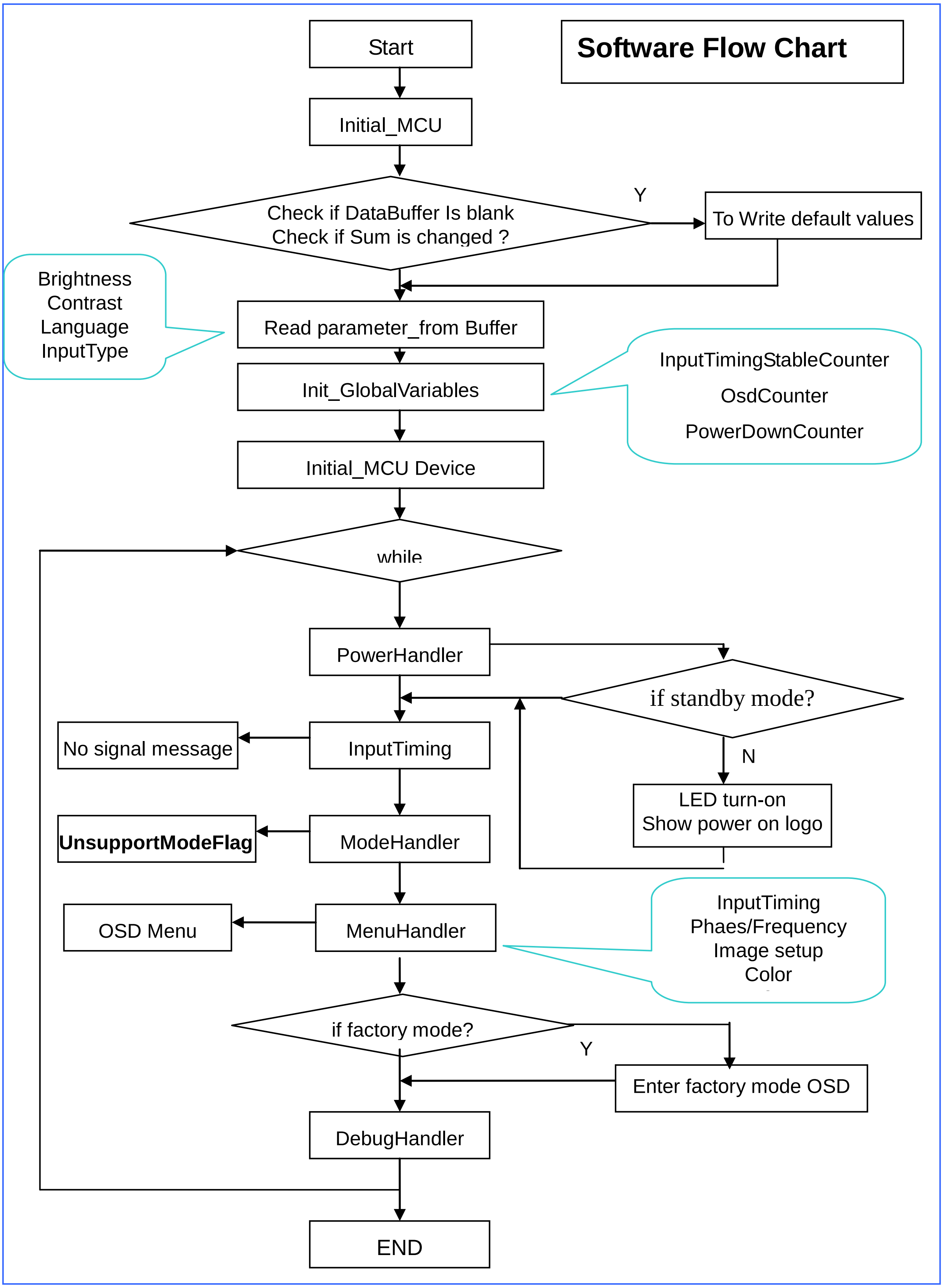
6.2 Main Board Block Diagram



6.3 Power Board Block Diagram



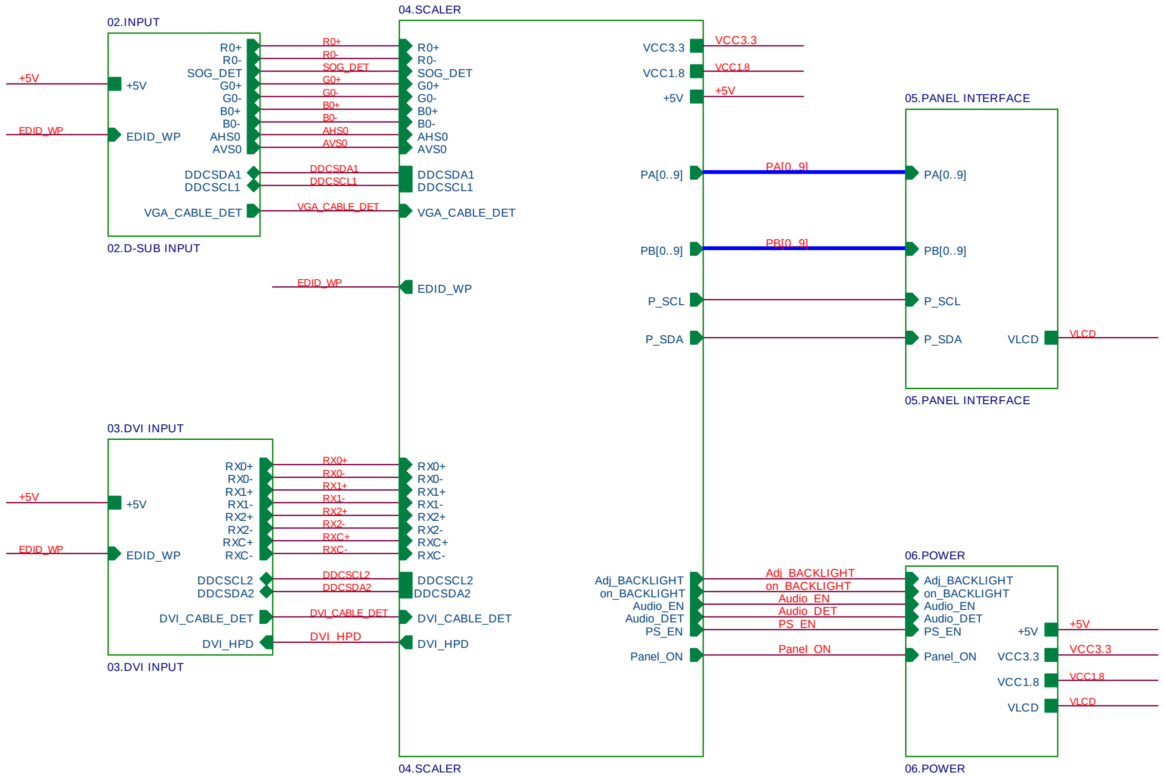
6.4 Software Flow Chart



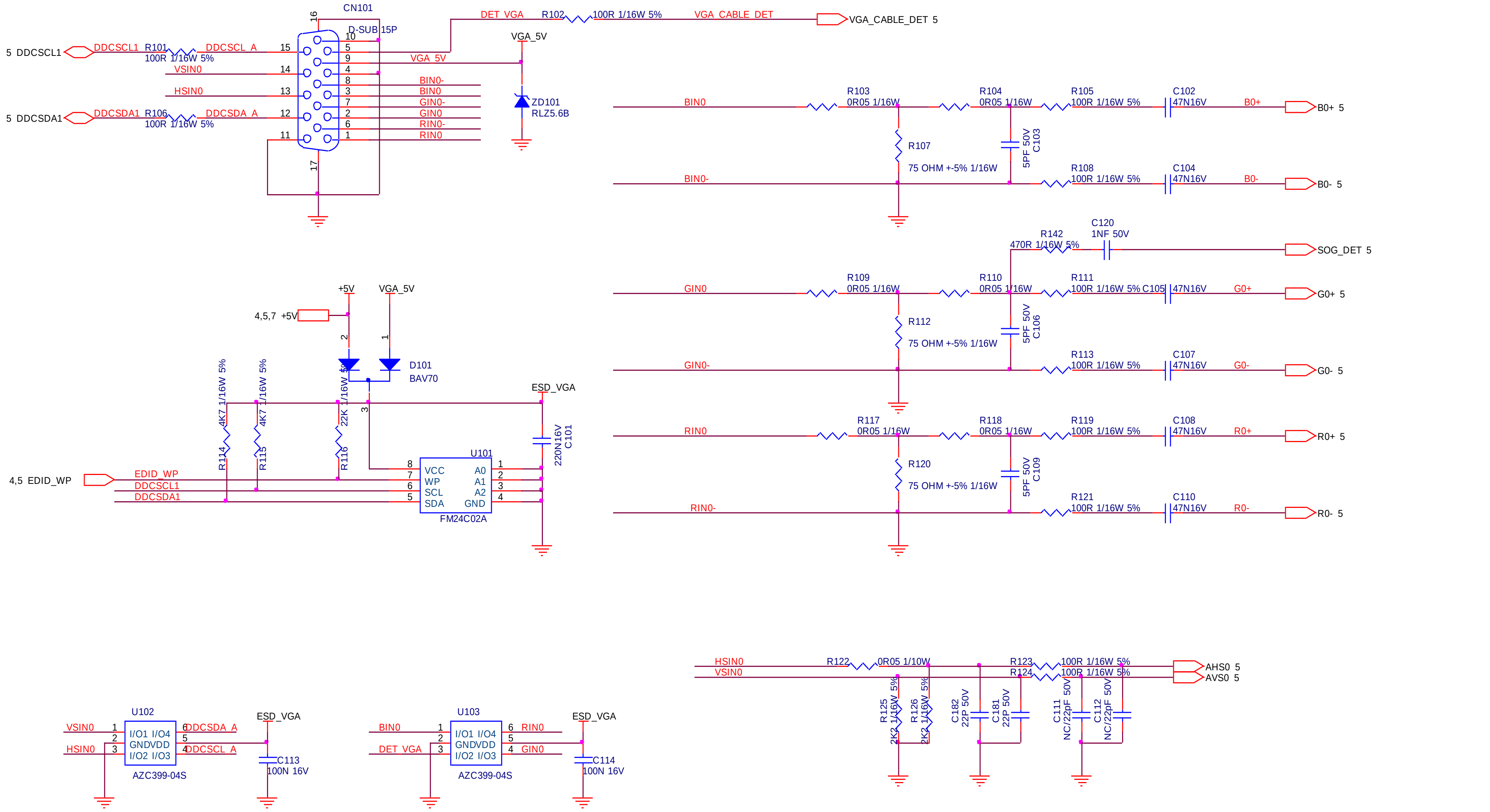
------Just for your reference

7. Schematic

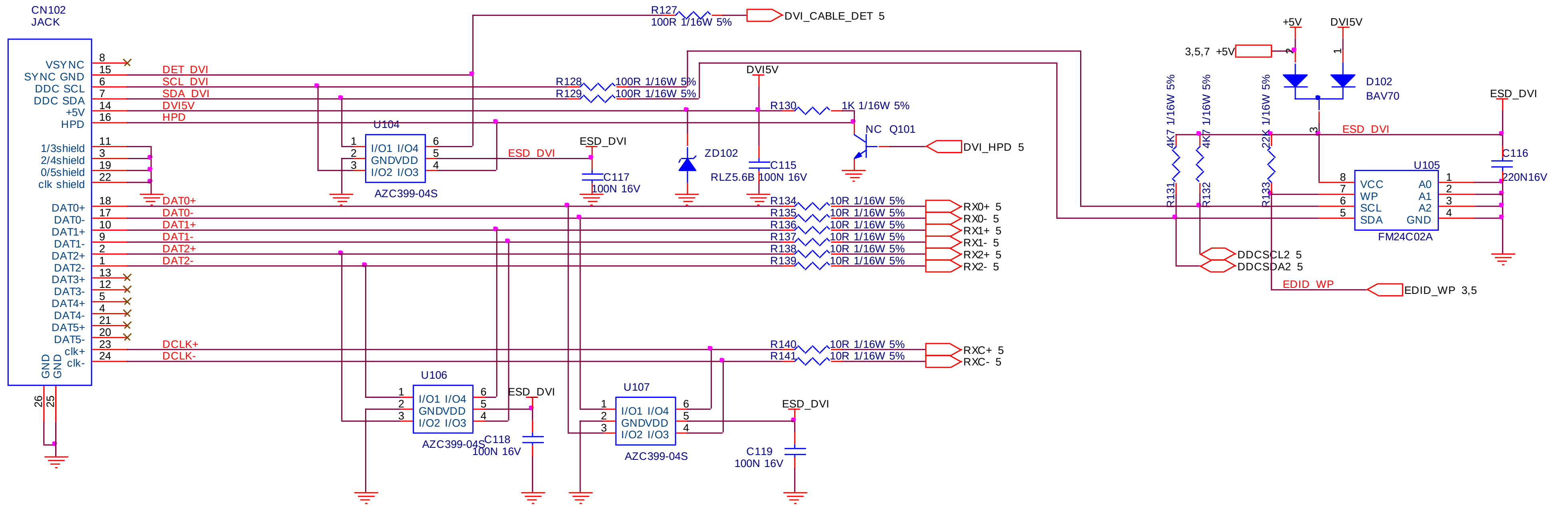
7.1 Main Board 715G4502M



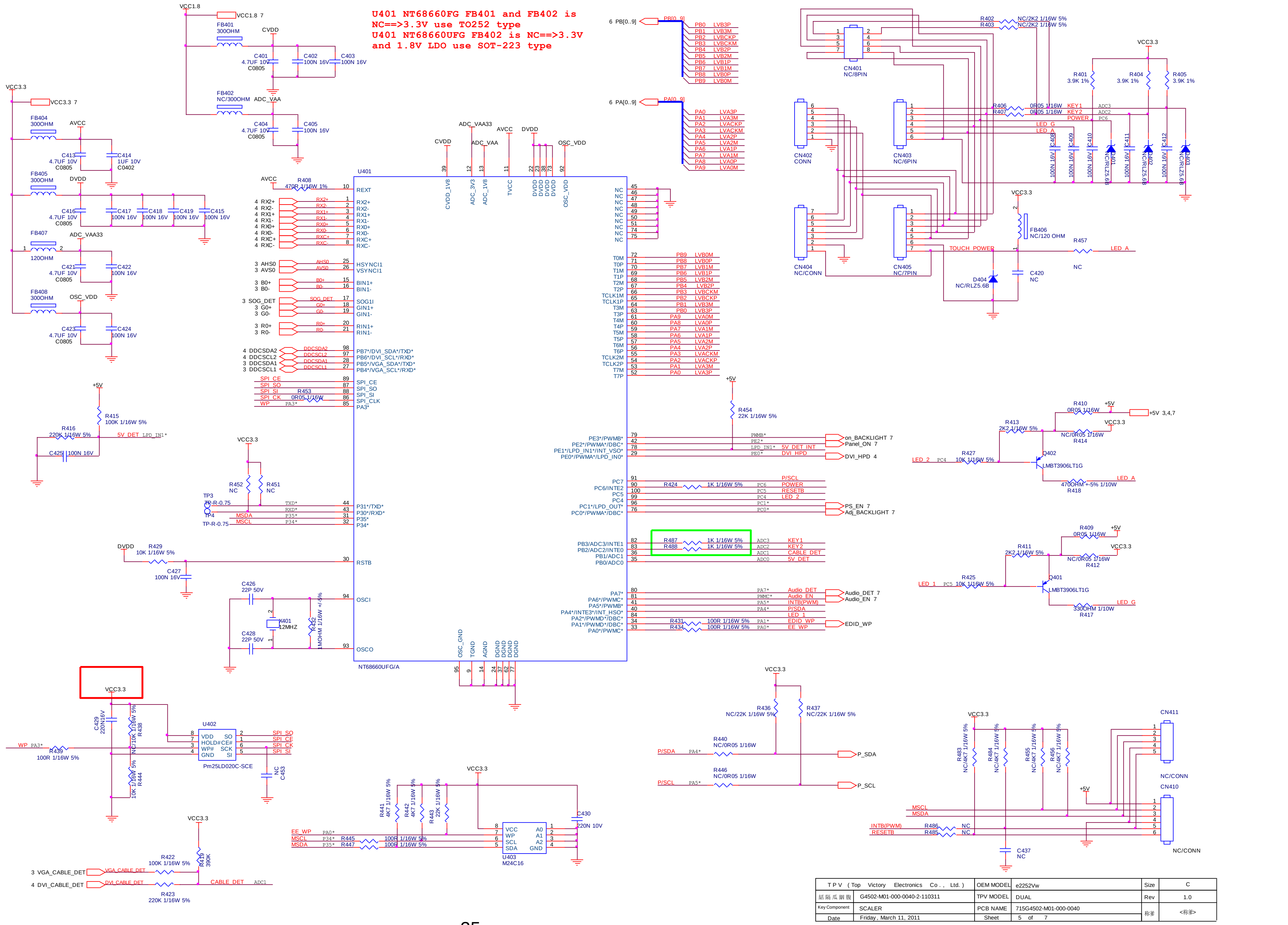
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e2252Vw	Size	B
紶隔瓜綑腹	G4502-M01-000-0040-2-110311	TPV MODEL	DUAL	Rev	1
Key Component	COVER & REVISE HISTORY	PCB NAME	715G4502-M01-000-0040	称爹	<称爹>
Date	Friday, March 11, 2011	Sheet	2 of 7		

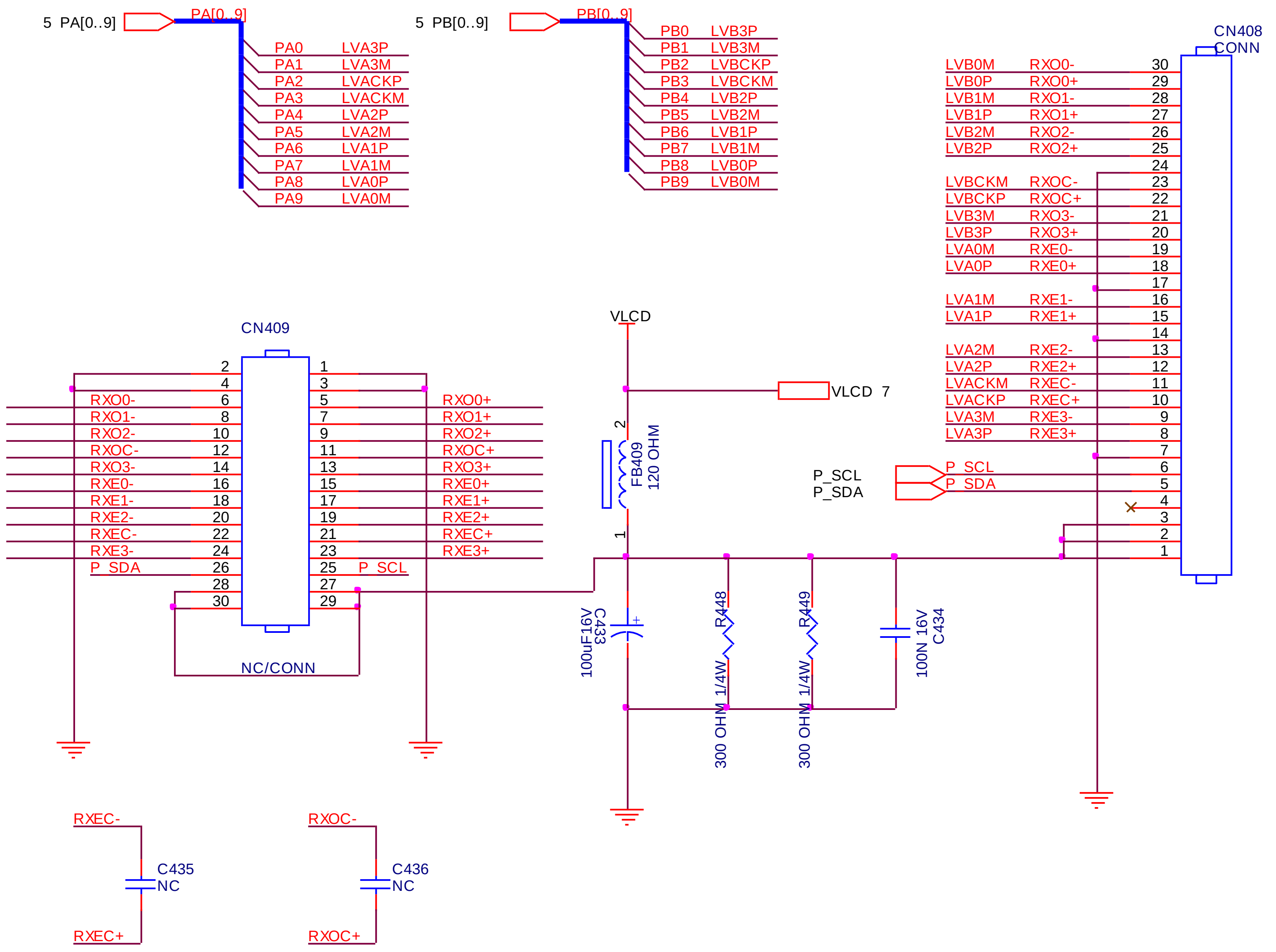


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e2252Vw	Size	B
[illegible]	G4502-M01-000-0040-2-110311	TPV MODEL	DUAL	Rev	1.0
Key Component	D-SUB I/O	PCB NAME	715G4502-M01-000-0040	[illegible]	<[illegible]>
Date	Friday, March 11, 2011	Sheet	3 of 7		

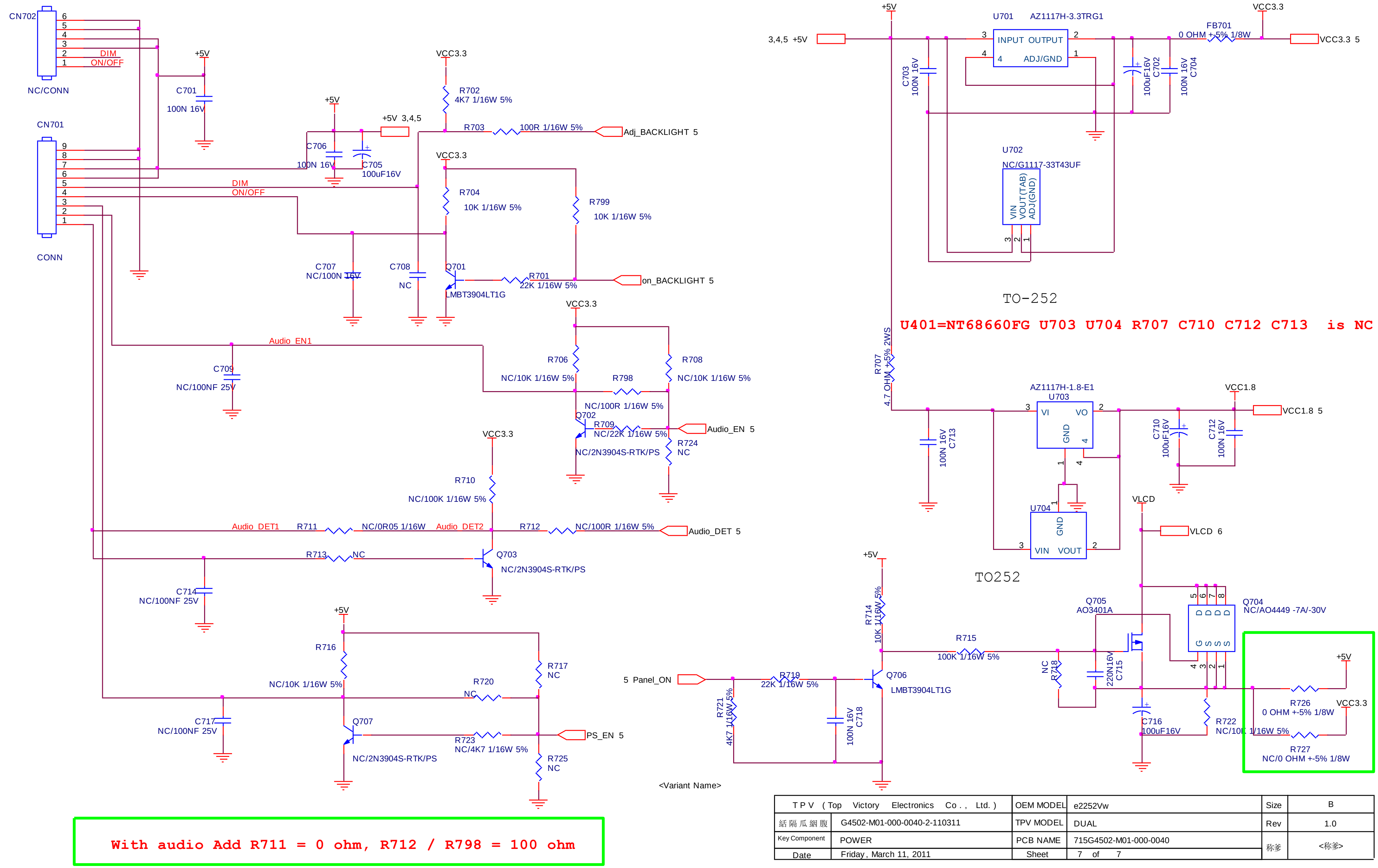


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	OTS	Size	B
紙 隔 瓜 綢 腹	G4502-M01-000-0040-2-110311	TPV MODEL	DUAL	Rev	1.0
Key Component	DVI	PCB NAME	715G4502-M01-000-0040	称爹	<称爹>
Date	Friday, March 11, 2011	Sheet	4 of 7		

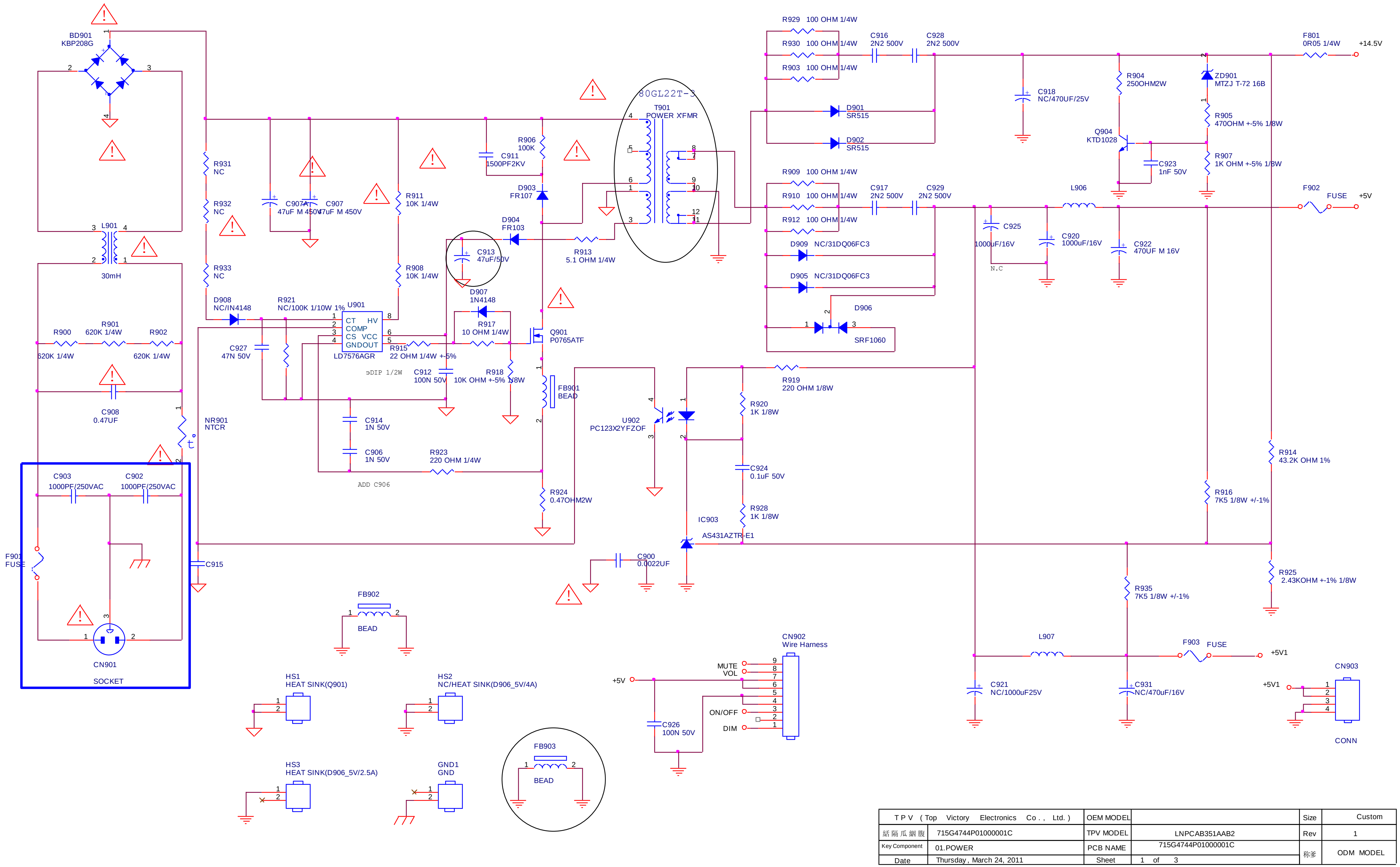

U401 NT68660FG FB401 and FB402 is
NC==>3.3V use TO252 type
U401 NT68660UFG FB402 is NC==>3.3V
and 1.8V LDO use SOT-223 type
U401
NT68660UFG/A
U402
Pm25LD020C-SCE
U403
M24C16
TPV (Top Victory Electronics Co., Ltd.)
OEM MODEL e2252Vw
TPV MODEL DUAL
Key Component SCALER
G4502-M01-000-0040-2-110311
PCB NAME 715G4502-M01-000-0040
Date Friday, March 11, 2011
Sheet 5 of 7
Size C
Rev 1.0

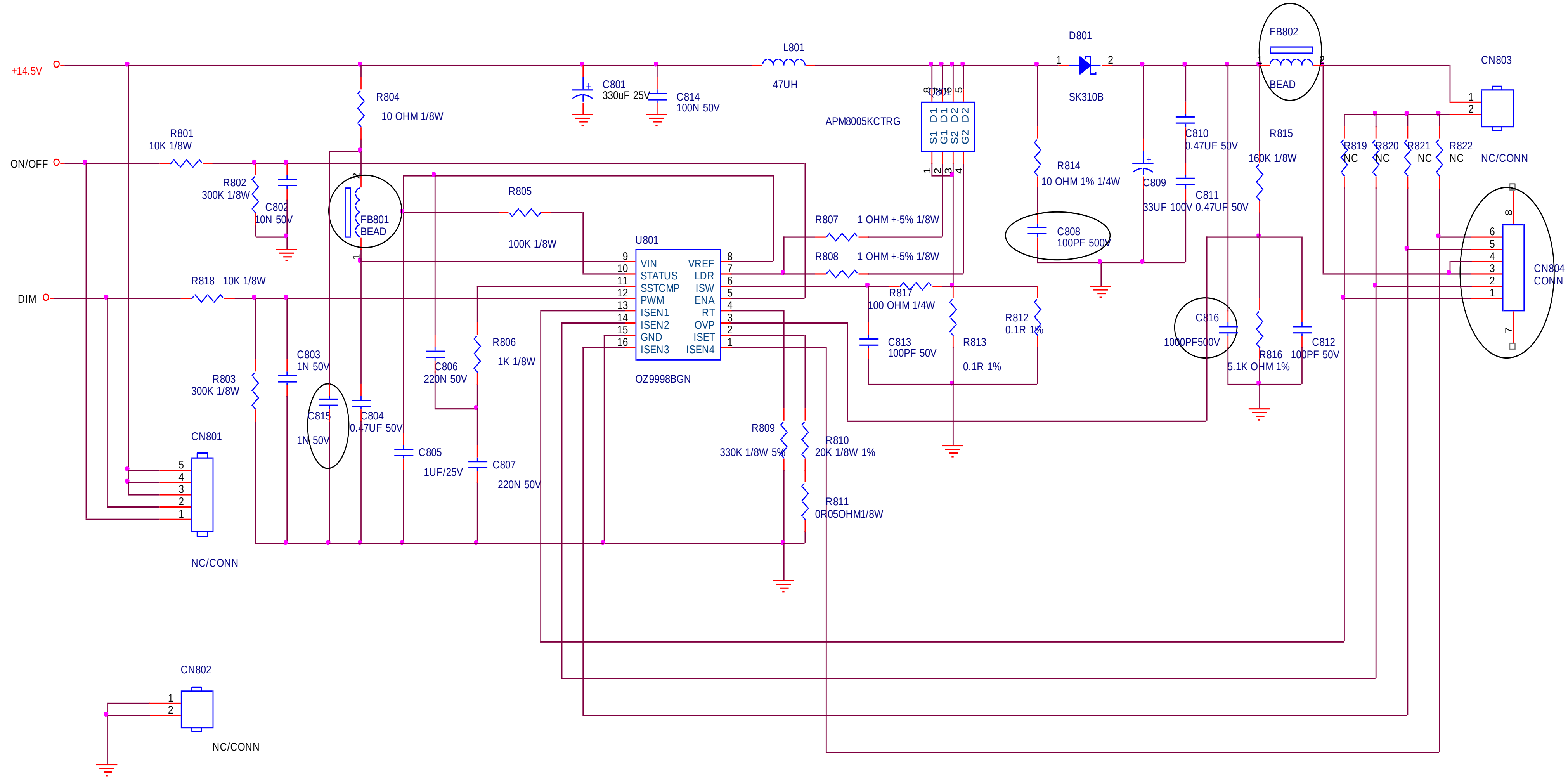


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e2252Vw	Size	A
紹 隔 瓜 細 腹	G4502-M01-000-0040-2-110311	TPV MODEL	DUAL	Rev	1.0
Key Component	LVDS PANEL I/O	PCB NAME	715G4502-M01-000-0040	称爹	<称爹>
Date	Friday, March 11, 2011	Sheet	6 of 7		

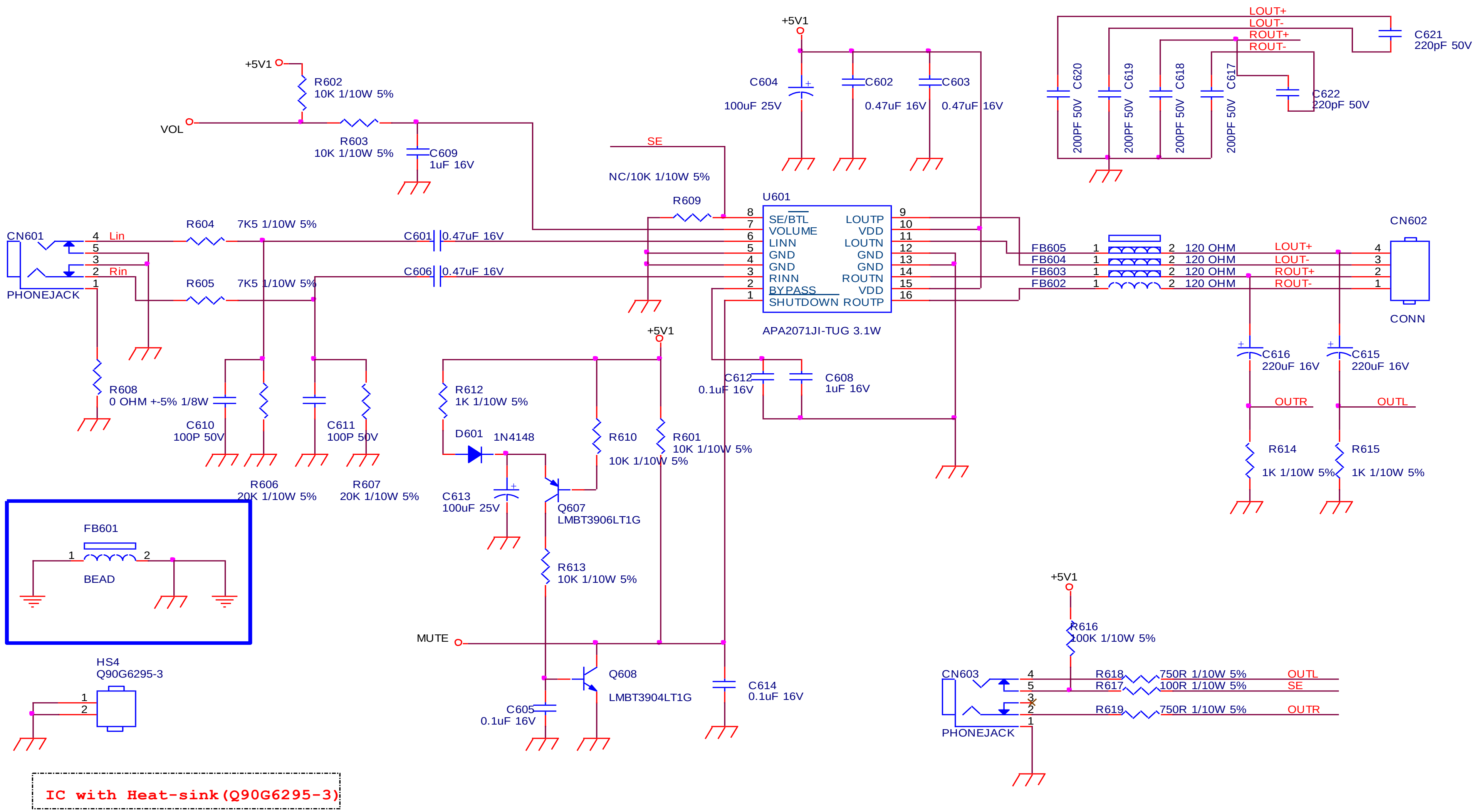

CN702
DIM
ON/OFF
NC/CONN
CN701
CONN
DIM
ON/OFF
C701
100N 16V
+5V
C706
100N 16V
C705
100uF16V
+5V 3,4,5
VCC3.3
R702
4K7 1/16W 5%
R703
100R 1/16W 5%
Adj_BACKLIGHT 5
R704
10K 1/16W 5%
R799
10K 1/16W 5%
C707
NC/100N 16V
C708
NC
Q701
LMBT3904LT1G
R701
22K 1/16W 5%
on_BACKLIGHT 5
Audio_EN1
C709
NC/100NF 25V
R706
NC/10K 1/16W 5%
R708
NC/10K 1/16W 5%
R798
NC/100R 1/16W 5%
Q702
R709
NC/22K 1/16W 5%
Audio_EN 5
R724
NC
NC/2N3904S-RTK/PS
R710
NC/100K 1/16W 5%
Audio_DET1
R711
NC/0R05 1/16W
Audio_DET2
R712
NC/100R 1/16W 5%
Audio_DET 5
R713
NC
Q703
NC/2N3904S-RTK/PS
C714
NC/100NF 25V
R716
NC/10K 1/16W 5%
R717
NC
R720
NC
C717
NC/100NF 25V
Q707
R723
NC/4K7 1/16W 5%
PS_EN 5
NC/2N3904S-RTK/PS
R725
NC
With audio Add R711 = 0 ohm, R712 / R798 = 100 ohm
3,4,5 +5V
U701
AZ1117H-3.3TRG1
INPUT OUTPUT
ADJ/GND
C703
100N 16V
100uF16V
C702
100N 16V
C704
FB701
0 OHM +-5% 1/8W
VCC3.3 5
U702
NC/G1117-33T43UF
VIN
VOUT(TAB)
ADJ(GND)
TO-252
U401=NT68660FG U703 U704 R707 C710 C712 C713 is NC
R707
4.7 OHM +-5% 2WS
AZ1117H-1.8-E1
U703
VI VO
GND
VCC1.8
VCC1.8 5
100N 16V
C713
C710
100uF16V
C712
100N 16V
U704
GND
VIN VOUT
TO252
VLCD
VLCD 6
R714
10K 1/16W 5%
Q705
AO3401A
Q704
NC/AO4449 -7A/-30V
R715
100K 1/16W 5%
NC
R718
220N16V
C715
5 Panel_ON
R719
22K 1/16W 5%
Q706
LMBT3904LT1G
R721
4K7 1/16W 5%
100N 16V
C718
C716
100uF16V
R722
NC/10K 1/16W 5%
R726
0 OHM +-5% 1/8W
VCC3.3
R727
NC/0 OHM +-5% 1/8W
<Variant Name>
TPV (Top Victory Electronics Co., Ltd.)
OEM MODEL e2252Vw
Size B
G4502-M01-000-0040-2-110311
TPV MODEL DUAL
Rev 1.0
Key Component POWER
PCB NAME 715G4502-M01-000-0040
Date Friday, March 11, 2011
Sheet 7 of 7

7.2 Power Board 715G4744P



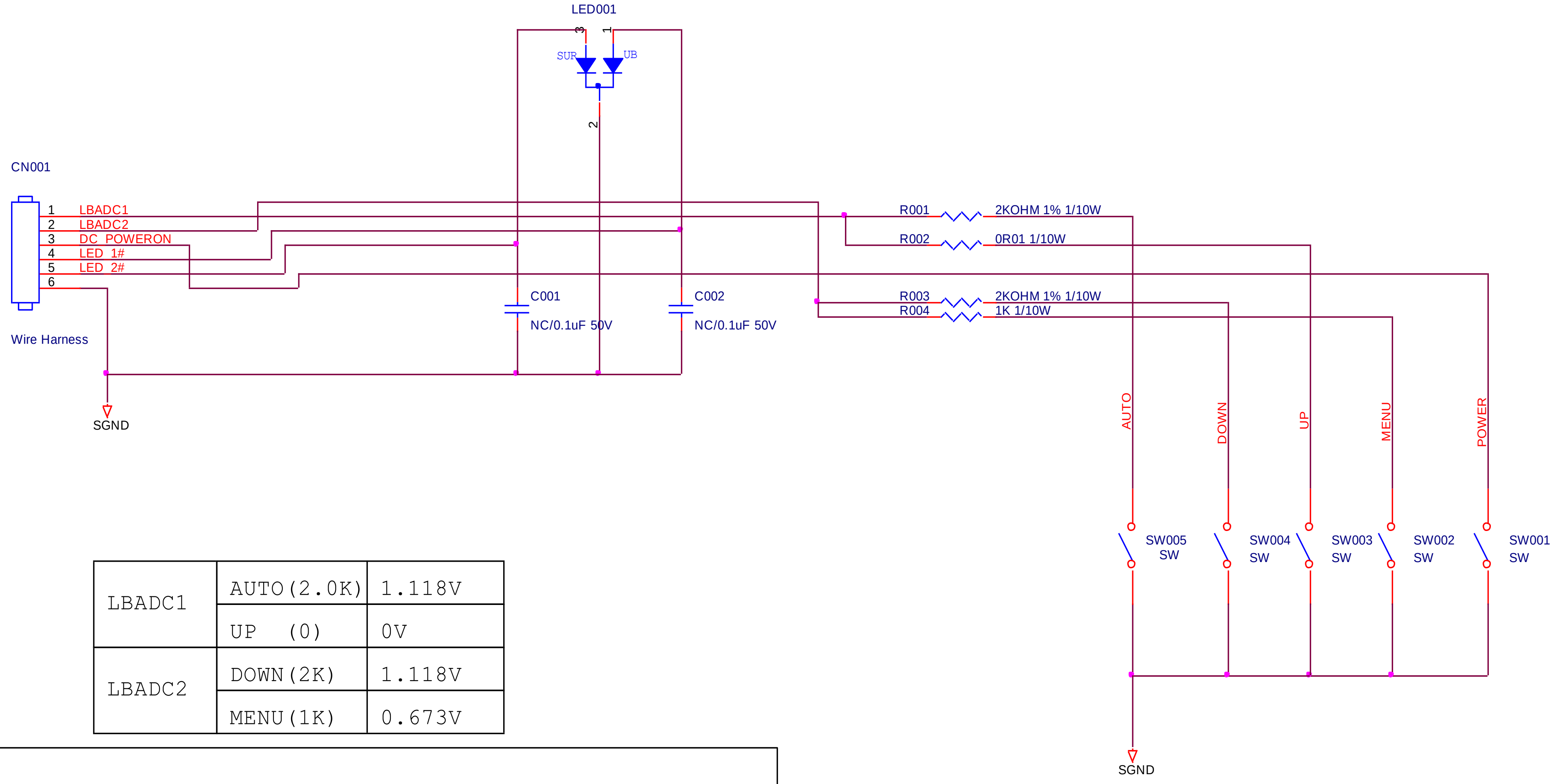


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	Custom
絬隔瓜絪腹	715G4744P01000001C	TPV MODEL	LNPCAB351AAB2	Rev	1
Key Component	02.INVERTER	PCB NAME	715G4744P01000001C	称爹	ODM MODEL
Date	Thursday, March 24, 2011	Sheet	2 of 3		

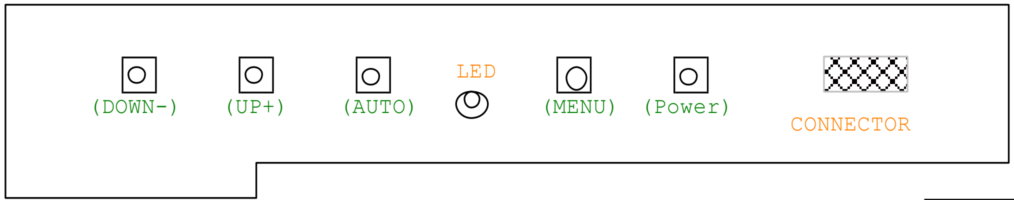


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	AOC 619vH	Size	A4
紹 隔 瓜 細 腹	715G4744P01000001C	TPV MODEL	PWPC9E41CAJO	Rev	1
Key Component	04.AUDIO	PCB NAME	715G4744P01000001C	称爹	ODM MODEL
Date	Thursday, March 24, 2011	Sheet	4 of 4		

7.3 Key Board 715G4747K

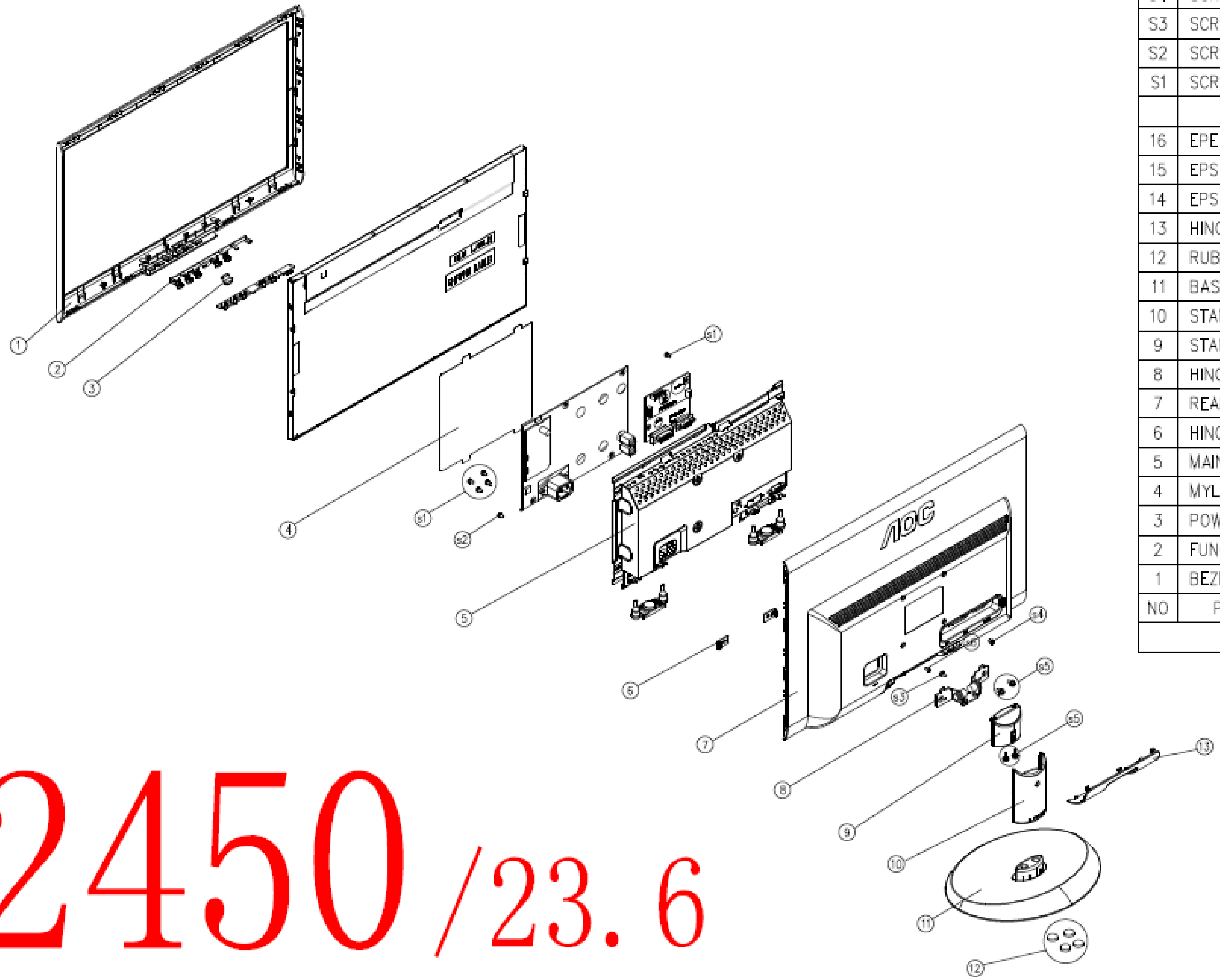


LBADC1	AUTO(2.0K)	1.118V
	UP (0)	0V
LBADC2	DOWN(2K)	1.118V
	MENU(1K)	0.673V



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	N/A	Size	B
紹 嗝 瓜 絅 腹	G4747-K0B-000-0040-101026	TPV MODEL	e950Sw	Rev	B
Key Component	2.0.key	PCB NAME	715G4747	称爹	<称爹>
Date	Tuesday , March 29, 2011	Sheet	2 of 2		

8. Monitor Exploded View



2450/23.6

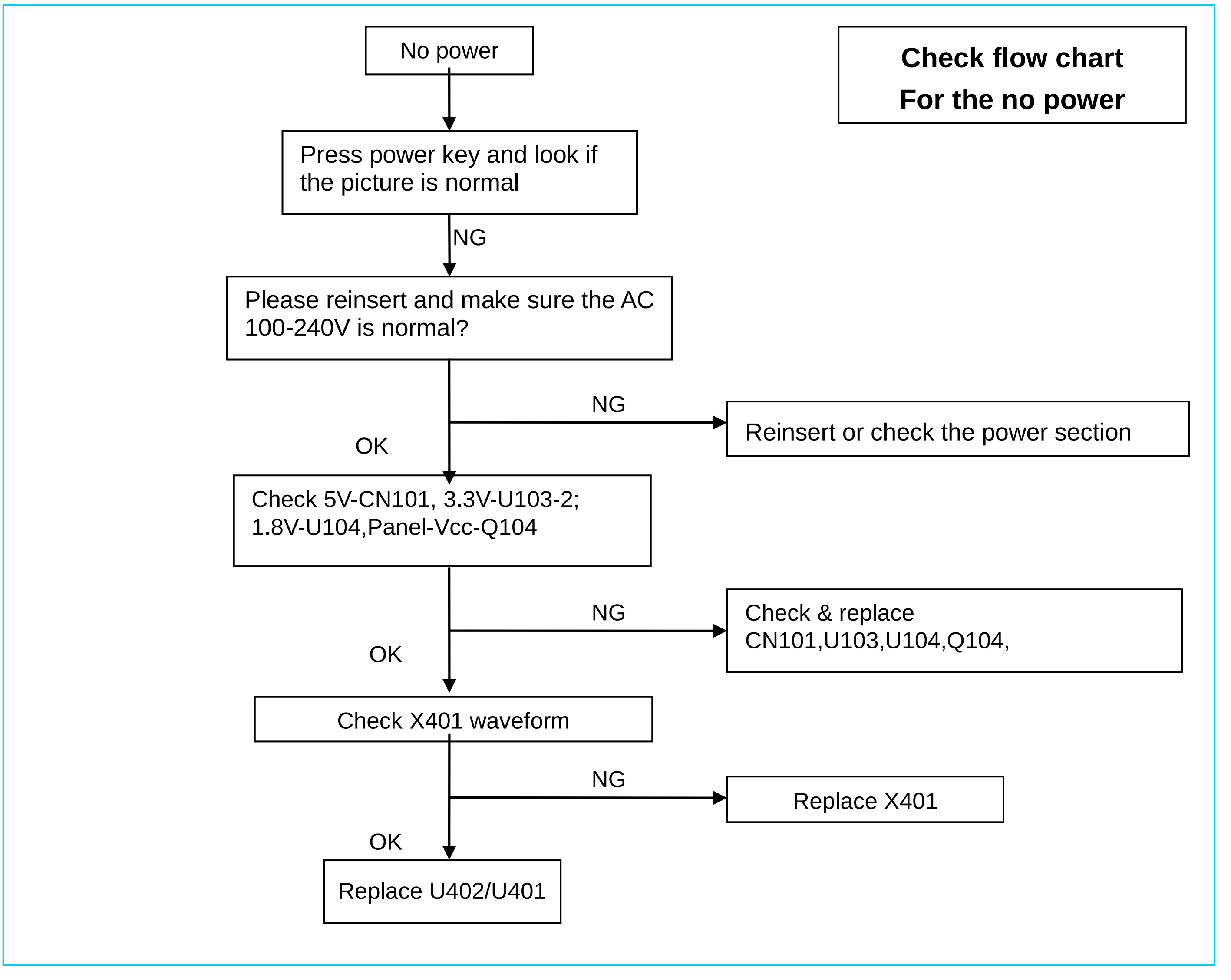
S6	SCREW M3x6	Q1G330-8-47-CR3	1	FC+RC
S5	SCREW M4X8	M1G1740-8-225-CR3	4	HINGE +RC*2 HINGE+STAND TOP*2
S4	SCREW M3X6	M1G130-5-47-CR3	1	RC+MF
S3	SCREW M4X6	Q1G140-10-47-CR3	1	HINGE+STAND TOP
S2	SCREW M4X6	D1G1040-6-120	1	接地
S1	SCREW M3X8	D1G1030-8-120	5	PB*4 MB*1
16	EPE COVER		1	
15	EPS	H44GD011-201	1	
14	EPS	H44GD011-101	1	
13	HINGE COVER	Q33G0505-ABJ-1S-0100	1	
12	RUBBER FOOT	Q12G6600-6	4	
11	BASE	Q34G7396ABJ-1S-0130	1	
10	STAND COVER	Q33G0504ABJ-1S-0100	1	
9	STAND	Q34G7395-ABJ-1S-0100	1	
8	HINGE	H37G0026-012	1	
7	REAR COVER	A34G2559ABJ-1S-0100	1	
6	HINGE PLATE	A15G1587-101	2	
5	MAIN FRAME	A15G1597-401-101	1	
4	MYLAR	H52G1801-16-001	1	
3	POWER LENS	A33G1182-1-1C-0100	1	
2	FUNCTION BUTTON	A33G1181-ABJ-1L-0100	1	
1	BEZEL	A34G2558-ABJ-A1S-0130	1	
NO	PART NAME	PART NO	Q'TY	NOTE

e2450swd	
L236WA-U50	
panel:CMI M236H3-LA3	
VGA DVI HDCP e-Saver	
TDAMN22DAGA6HNH	
MAIN:715G4502M0D000004C	
Con:715GP01002004S	
POW:715G4744P0B0000010	
MF:A15G1597401101	
Hinge:A37G0026-012	
EPS:H44GD011-101/201	

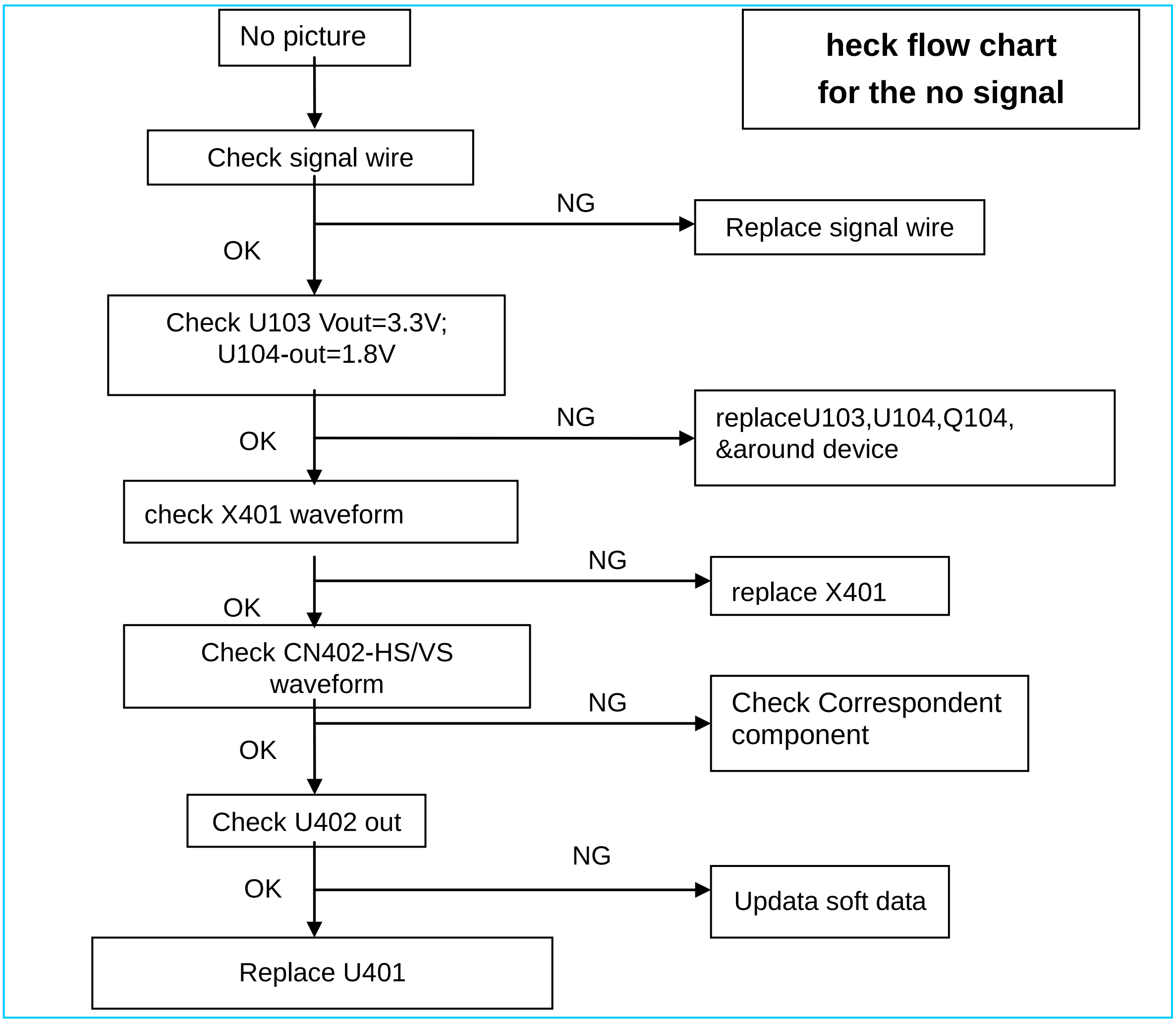
9. Maintainability

9.1 Trouble Shooting

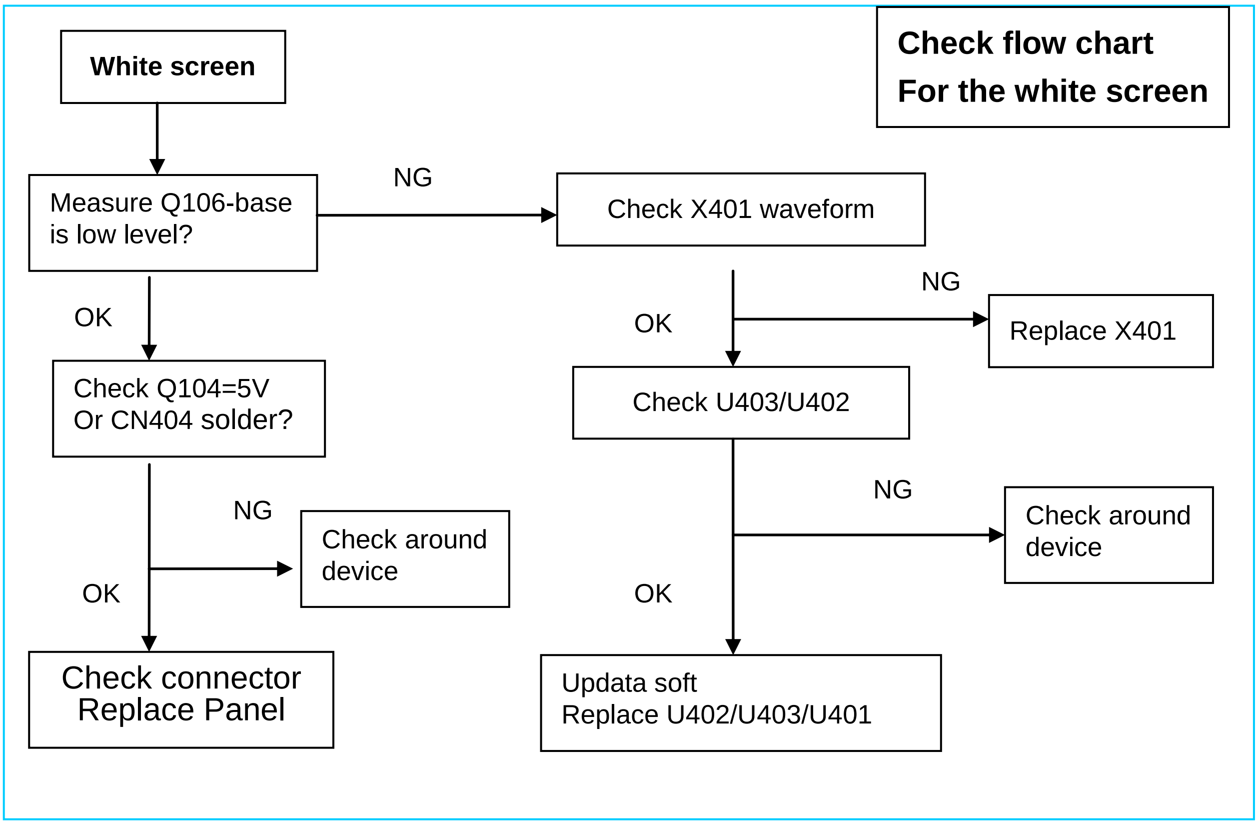
Main Board---No Power



No picture (LED orange)

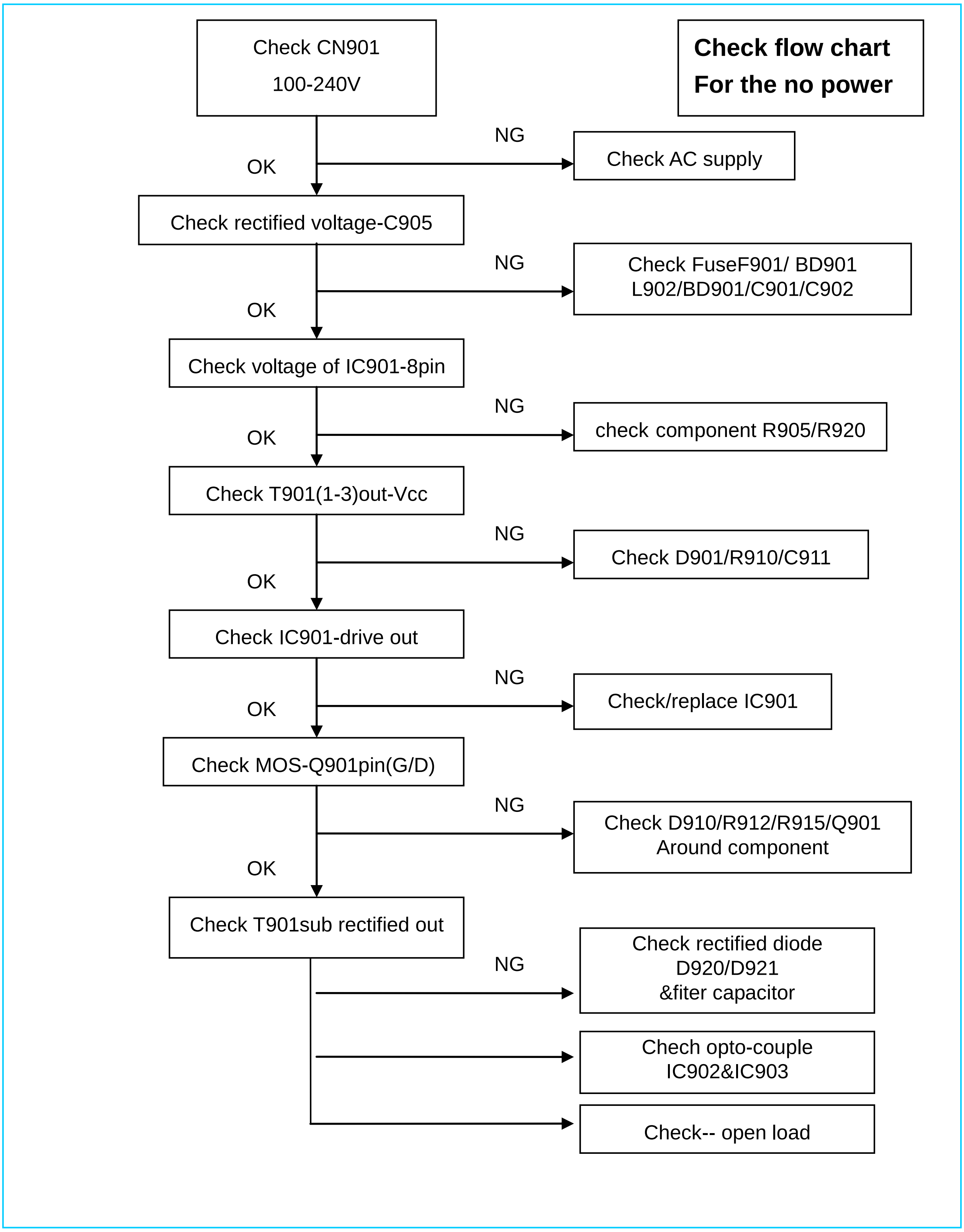


White screen

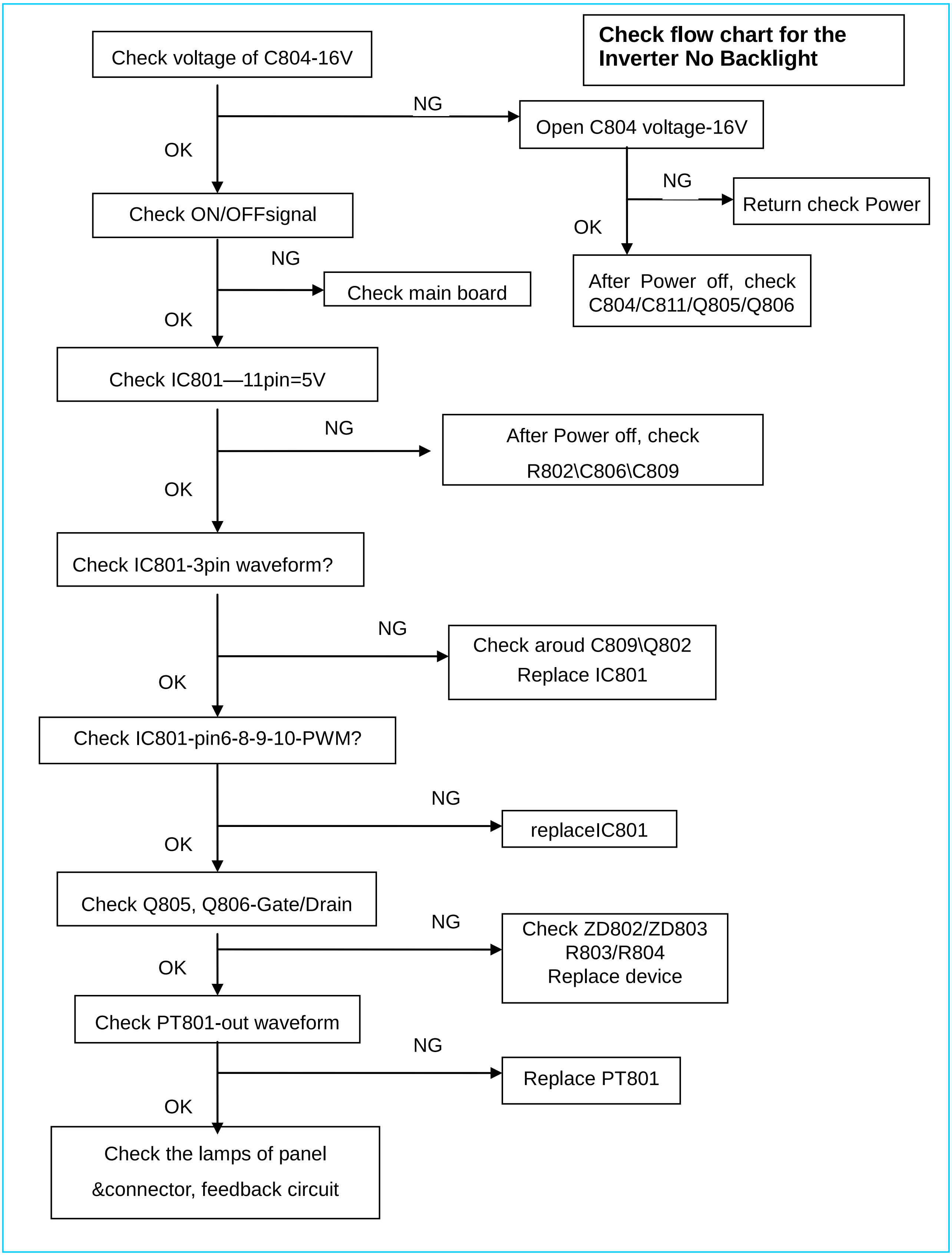


Power Board---

No Power 5V/12V

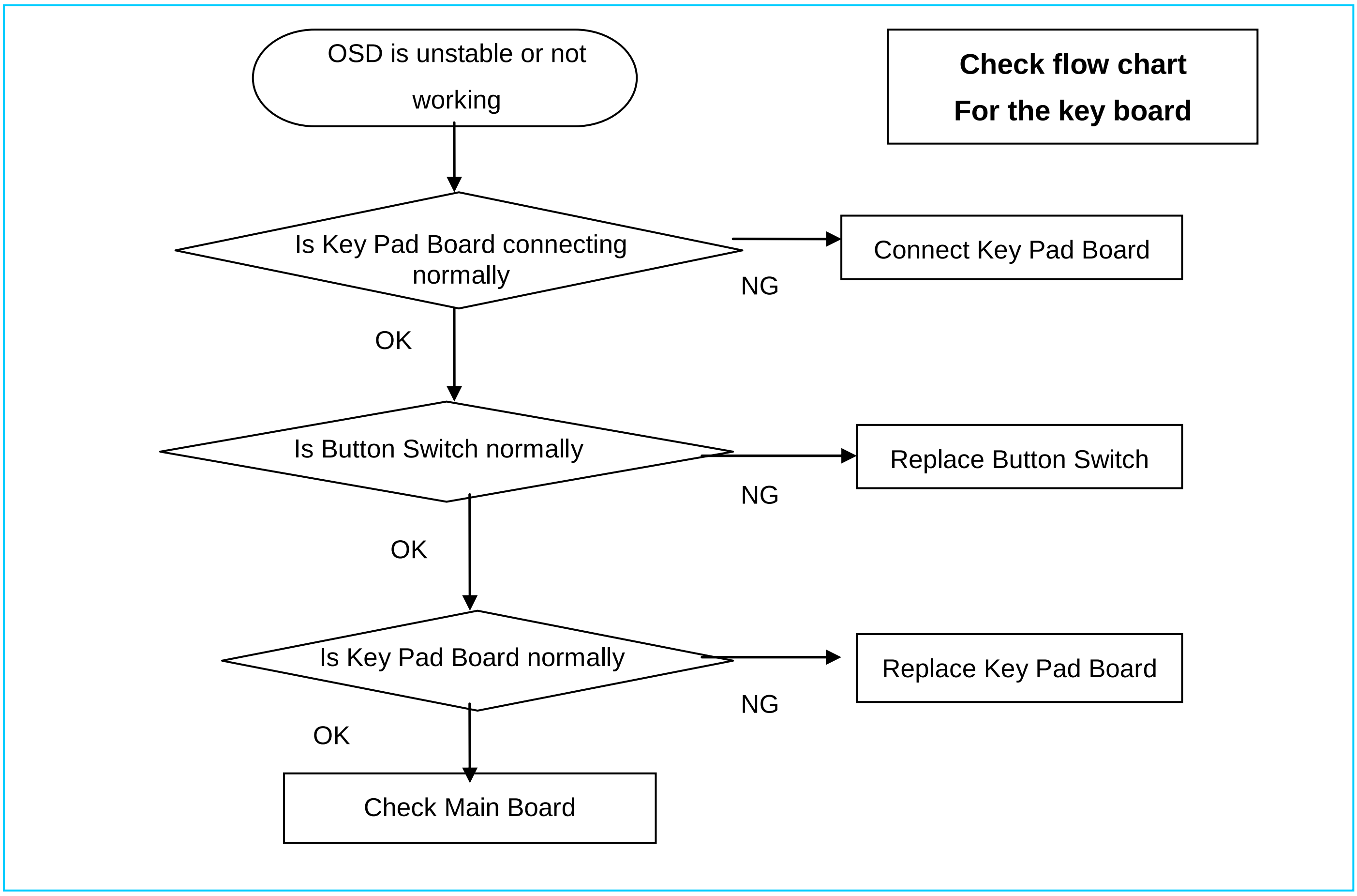


No Backlight of panel



Key Board---

OSD no working



9.2 Equipments and Tools Requirement

1. Multi-meter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with and Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

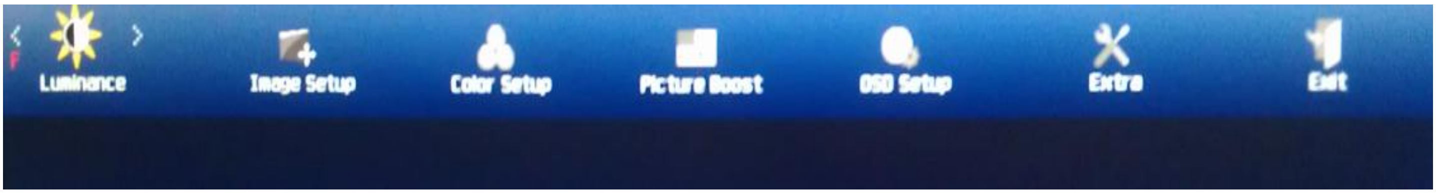
1. Perform the adjustments described in OPERATION THE MONITOR, depending on the problem you have .If the monitor dose not get a picture ,skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or service center for further assistance.

9.3 Factory mode adjustment

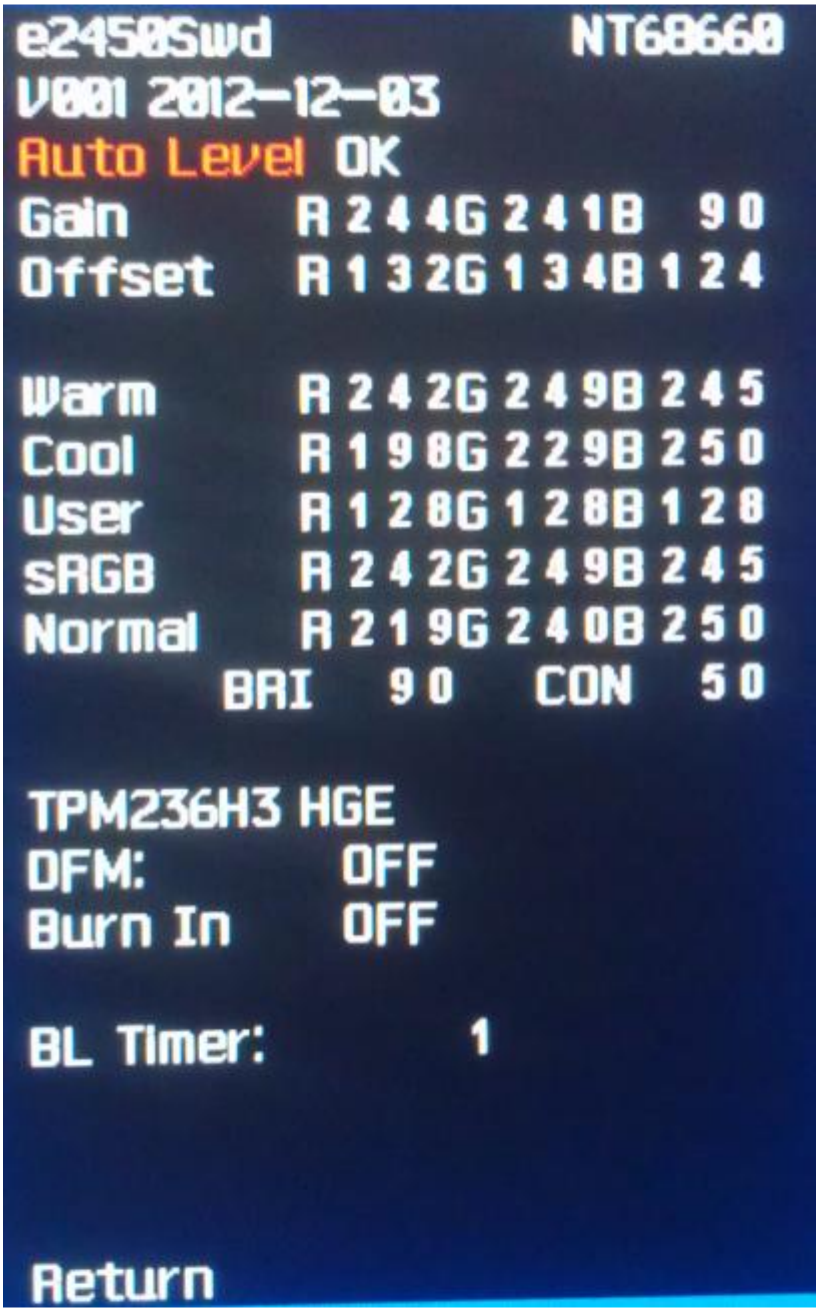
After replacing the Main board and the Panel, Check if white-balance is within the specs, then re-writing DDC is necessary.

Check for enter the Factory mode：

Press button and hold, reinsert the Power cord, then, press MENU, the monitor will may enter Factory OSD Menu. Then Press . Factory OSD Menu will appear in the screen.



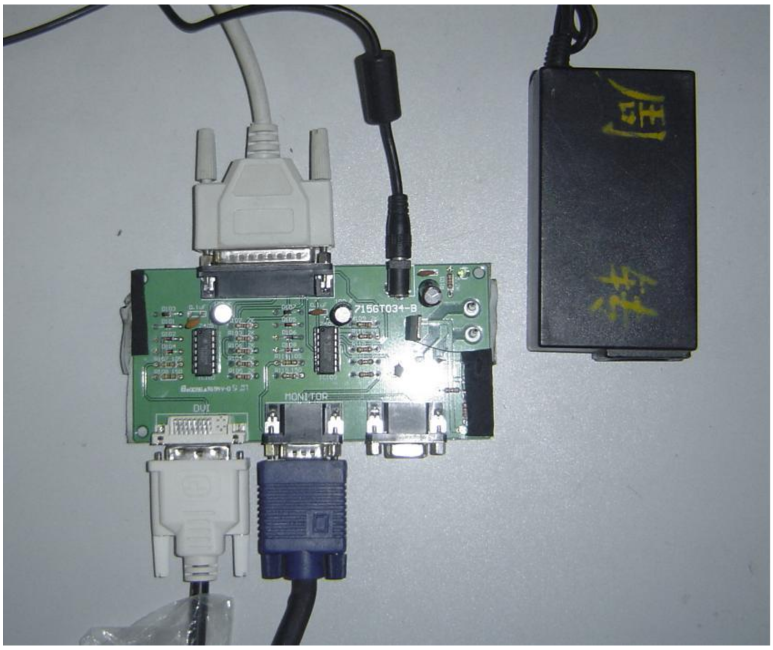
By select this “F” button to enter Factory OSD Menu.

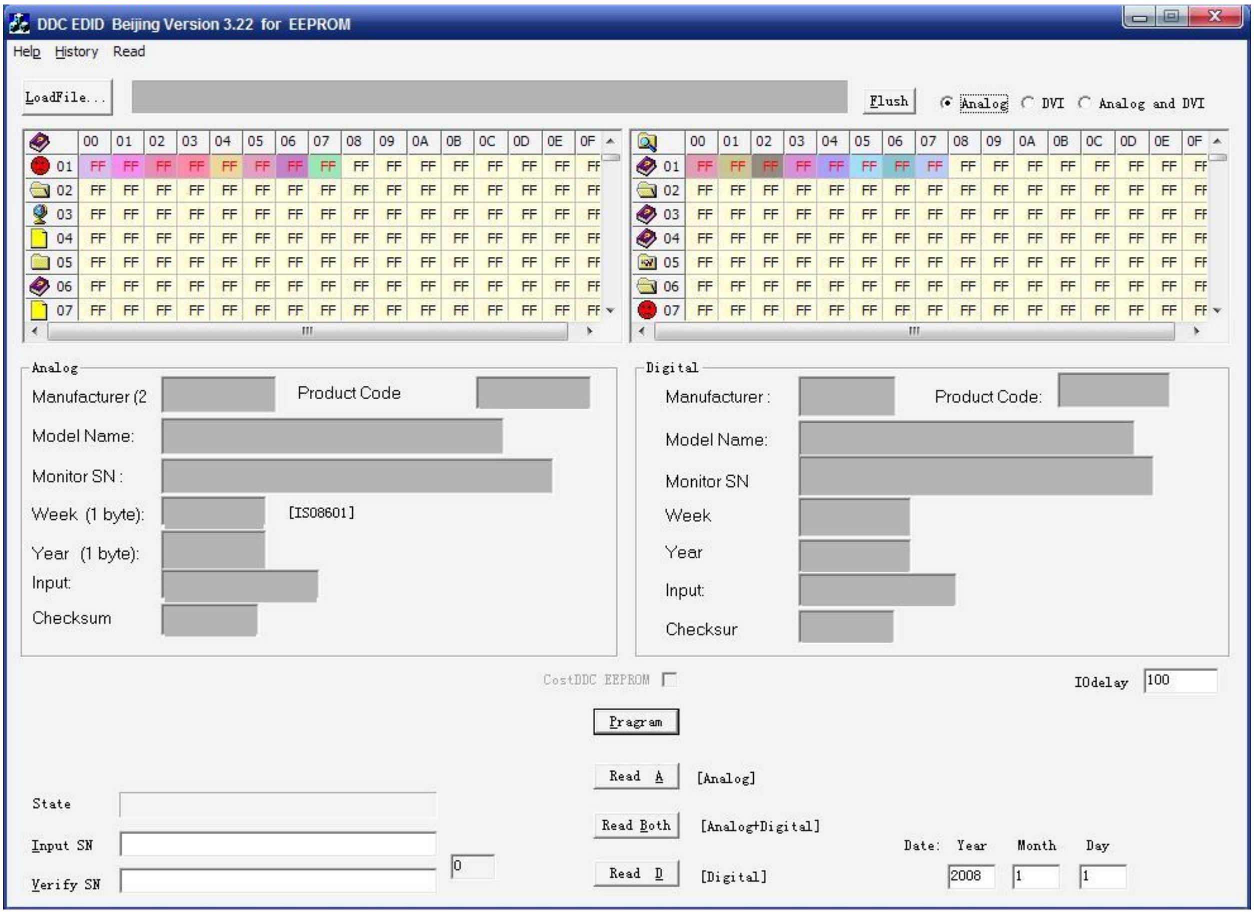


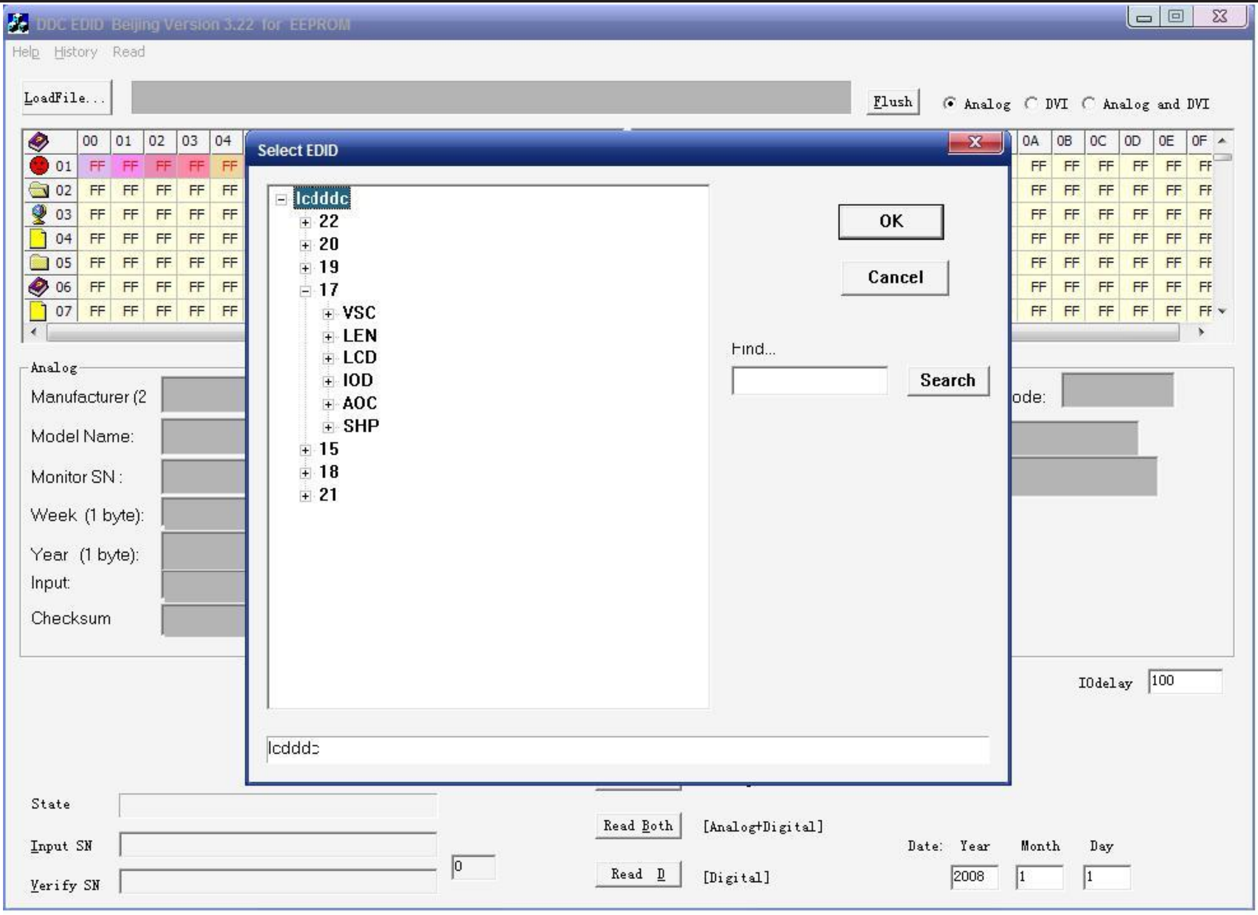
9.4 Writing DDC program step

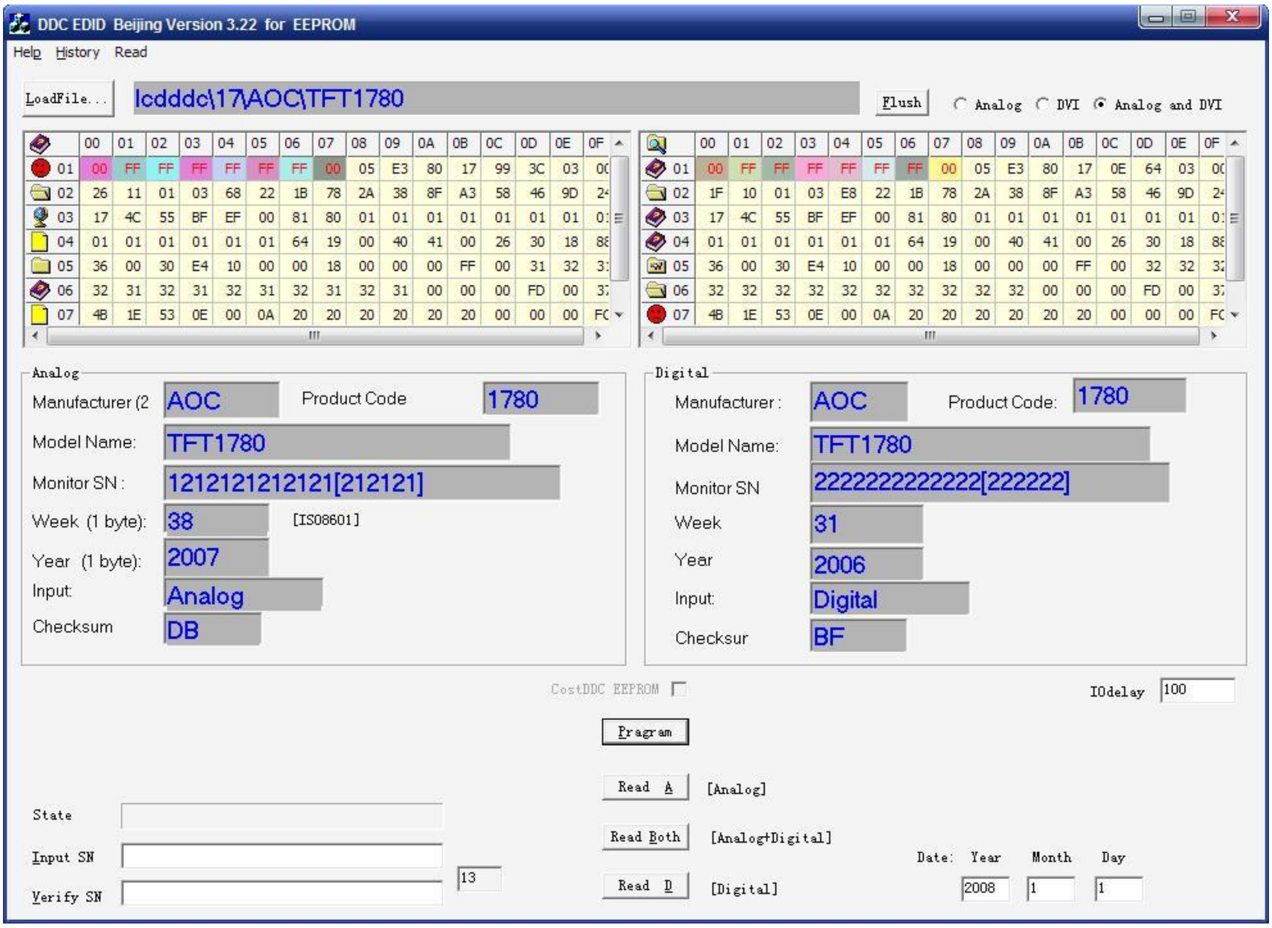
1. Prepared the PC with Windows XP system, DDC recording device (12V)
2. Connect the DDC recording device and the PC through PC parallel port
3. setup"Port95nt" driver program to PC ,
4. select relevant program and run it, below figure will appear
5, Press "LoadFile", select EDID -model of product, and select input port;
6. key in SN, and other informatiom, key-press "Pragram" button;

for figure below:






DDC EDID Beijing Version 3.22 for EEPROM
Help History Read
LoadFile...
Flush
Analog DVI Analog and DVI
Select EDID
lcdddc
22
20
19
17
VSC
LEN
LCD
IOD
AOC
SHP
15
18
21
OK
Cancel
Find...
Search
lcdddc
Analog
Manufacturer (2
Model Name:
Monitor SN :
Week (1 byte):
Year (1 byte):
Input:
Checksum
IOdelay 100
State
Input SN
Verify SN
0
Read Both [Analog+Digital]
Read D [Digital]
Date: Year Month Day
2008 1 1


DDC EDID Beijing Version 3.22 for EEPROM
Help History Read
LoadFile...
lcdddc\17\AOC\TFT1780
Flush
Analog DVI Analog and DVI
Analog
Manufacturer (2 AOC
Product Code 1780
Model Name: TFT1780
Monitor SN : 1212121212121[212121]
Week (1 byte): 38
[ISO8601]
Year (1 byte): 2007
Input: Analog
Checksum DB
Digital
Manufacturer : AOC
Product Code: 1780
Model Name: TFT1780
Monitor SN 2222222222222[222222]
Week 31
Year 2006
Input: Digital
Checksur BF
CostDDC EEPROM
IOdelay 100
Pragram
Read A [Analog]
Read Both [Analog+Digital]
Read D [Digital]
State
Input SN
Verify SN
13
Date: Year Month Day
2008 1 1

10. BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to http://cs.tpv.com.cn/hello1.asp for the latest information.

10.1 TDC2N22KAHE6HNJ BOM

Location	Part No	Description	Remark
	040G 581 26704	LABEL	1
	040G 58162461A	EPA LABEL	1
	049G 51 1A	ERADICATOR	0.207
	052G 1210 A	Tasma aluminiowa	1
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm (单导)	3
	052G 2191 A	PAPER TAPE	50
HDCP-SMT	070GHDCP500HDC	HDCP CODE	1.02
E08901	089G402A15N IS	AC POWER CORD 1500	1
ECN804	095G8014 6WE45	HARNESS 6P(CI1406S)-6P(2008) 140	1
	0M1G1030 6120	SCREW 3x6	5
	0M1G1140 8120	SCREW 4x8	1
	0M1G3030 6 47 CR3	SCREW	1
	0Q1G 140 12120	SCREW 4X12	1
	0Q1G 330 10120	SCREW FOR FP/RC 42-D003792	1
E08902	389G0725GAADBR	D-SUB CABLE 1500	1
E08902	389G0725HAADBR	D-SUB CABLE 1500	1
E08901	389G402A15NHLP	AC POWER CORD 1500 for America	1
E09501	395G179J30PE38	FFC CABLE 30P 215mm 1.0MM	1
	708GD015XWPJ03	AOC 40(1726 NA)	1
	H07G X2 LH 21	WOODEN PALLET	0.011
	H07G X2 LH 22	WOODEN PALLET	0.001
	J44G6002 S179	paper plate	0.033
	J44G6002 S185	PAPER PLATE	0.003
	J44G9003210 35	CORNER PAPER	0.049
	J45G 77 6	PE PACKING	0.4
	J52G 1185A6A	MIDDLE TAPE FOR CARTON	20
	J52G 1185A6B	MIDDLE TAPE FOR CARTON	1
E750	750GBV236GE211N000	LCD TPM236H3-HGEL02 C1A FQ TPV	1
E750	750GBV236GE212N000	LCD TPM236H3-HGEL02 C1A(CTOC) FQ TPV	1
E756	756GJCCB0AE0120000	MCU ASSY	1
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8	1
SMTCC-U402	100GAN2D000B11	AOC e2450Swd	1
	A15G1587101	BKT_HINGE	2

	A15G1597101401	MAINFRAME	1
	A33G1181ABJ 2L0100	KNOB Function Button	1
	A33G1182 1 1C0100	POWER LENS FOR 50TH	1
	A34G2558AEDS2B0130	BEZEL	1
	A34G2559ABJ0DK0130	REAR_COVER	1
	AM1G1740 10125	SCREW	2
	AM1G1740 12125	SCREW	2
	CBPCCN2A1J4	CONVERSION G4502-M01-000-0040-4-120912	1
CN402	033G3802 6B Y L	WAFER	1
CN701	033G3802 9B Y L	CONN 2.0 9P	1
CN408	033G801930F CH JS	FFC CONN 1.0mm 30P R/A 34mm 6.3mm	1
R707	061G152M47964E SY	RST MOFR 4.7 OHM +-5% 2WS FUTABA	1
CN101	088G 35315FVCL	D-SUB CONN V/T 15P BLUE H=10.4	1
CN101	088G 35315FVDL	D-SUB CONN 15P FEMALE V/T WITH SCREW	1
CN102	088G 35424F VC	DVI CONN 24P V/T WITH SCREW	1
CN102	088G 35424FVXH	DVI CONN V/T 24P WHITE	1
X401	093G 2251B J	CRYSTAL 12MHZ NXS12.000AC30F-KAB10	1
	AIGCN2A1J1	MAIN BOARD FOR AI	1
C716	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	1
C705	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	1
C710	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	1
C433	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	1
C702	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	1
	SMTCCN2A1J1	MAIN BOARD FOR SMT	1
U703	056G 133 33AAC	LDO AZ1117H-1.8TRE1	1
U401	056G 562369	SCALER NT68660UFG/B TQFP-100	1
U701	056G 563514	IC AZ1117H-3.3TRG1 1A/3.3V SOT223	1
U105	056G1133531	EEPROM FM24C02A-SO-T-G 2K SOP-8	1
U101	056G1133531	EEPROM FM24C02A-SO-T-G 2K SOP-8	1
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8	1
Q401	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	1
Q402	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	1
Q706	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	1
Q701	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	1
Q706	057G 417525	SMALLTRAN MMBT3904 200mA 40V SOT-23	1
Q701	057G 417525	SMALLTRAN MMBT3904 200mA 40V SOT-23	1
Q402	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	1

Q401	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	1
Q705	057G 763940	MOSFET AO3401A SOT-23	1
R118	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R407	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R109	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R410	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R406	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R104	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R103	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R409	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R110	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R117	061G0402000 JY	RST CHIPR MAX 0R05 OHM 1/16W YAGEO	1
R136	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R141	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R134	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R137	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R135	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R139	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R140	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R138	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R129	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R106	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R439	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R101	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R111	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R113	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R127	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R123	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R431	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R121	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R102	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R124	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R703	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R108	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R105	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R119	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1
R128	061G0402101 JY	RST CHIPR 100 OHM +-5% 1/16W YAGEO	1

R130	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R488	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R487	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R424	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R425	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R714	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R427	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R429	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R799	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R704	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R444	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R422	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R715	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R415	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R432	061G0402105 JT	RST CHIP R 1Mohm 1/16W +/-5% TZAI YUAN	1
R453	061G0402220 JT	RST CHIP 22R 1/16W 5% TZAI YUAN	1
R413	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	1
R126	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	1
R125	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	1
R411	061G0402222 JY	RST CHIPR 2.2KOHM +-5% 1/16W YAGEO	1
R116	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R454	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R719	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R701	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R133	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R423	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	1
R416	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	1
R405	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	1
R404	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	1
R401	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	1
R419	061G0402394 JY	RST CHIP R 390K +/-5% 1/16W YAGEO	1
R408	061G04024700FT	RST CHIP 470R 1/16W 1%	1
R142	061G0402471 JY	RST CHIPR 470OHM +-5% 1/16W YAGEO	1
R702	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R114	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R131	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R132	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1

R721	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R115	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
C109	061G0402750 JT	RST 0402 75R 5% 1/16W	1
C103	061G0402750 JT	RST 0402 75R 5% 1/16W	1
C106	061G0402750 JT	RST 0402 75R 5% 1/16W	1
R122	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	1
R417	061G0603331 JT	RST 0603 330R 5% 1/10W	1
R418	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	1
R726	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
FB701	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R448	061G1206301 JT	RST CHIPR 300 OHM +-5% 1/4W TZAI YUAN	1
R449	061G1206301 JT	RST CHIPR 300 OHM +-5% 1/4W TZAI YUAN	1
C453	065G040210031J Y	CAP 0402 10PF 5% 50V NPO	1
C120	065G040210232K T	CAP CHIP 0402 1000pF 50V X7R	1
C434	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C409	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C415	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C419	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C718	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C706	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C114	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C408	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C703	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C410	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C713	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C115	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C119	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C418	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C424	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C405	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C704	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C411	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C403	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C422	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C412	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C427	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C118	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1

C712	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C417	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C402	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C425	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C701	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C113	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C117	065G040210412K F	CAP 0402 100NF 10% 16V X7R	1
C414	065G0402105A5K Y	NO-SUGGEST CAP 0402 1UF 10% 10V X5R	1
C182	065G040222031J Y	CAP CHIP 0402 22P 50V NPO +/-5%	1
C428	065G040222031J Y	CAP CHIP 0402 22P 50V NPO +/-5%	1
C426	065G040222031J Y	CAP CHIP 0402 22P 50V NPO +/-5%	1
C181	065G040222031J Y	CAP CHIP 0402 22P 50V NPO +/-5%	1
C715	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C116	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C429	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C101	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C104	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C110	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C102	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C108	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C107	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C105	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C413	065G0805475A2K Y	NO-SUGGEST CAP 0805 4.7UF 10% 10V X7R	1
C421	065G0805475A2K Y	NO-SUGGEST CAP 0805 4.7UF 10% 10V X7R	1
C416	065G0805475A2K Y	NO-SUGGEST CAP 0805 4.7UF 10% 10V X7R	1
C404	065G0805475A2K Y	NO-SUGGEST CAP 0805 4.7UF 10% 10V X7R	1
C401	065G0805475A2K Y	NO-SUGGEST CAP 0805 4.7UF 10% 10V X7R	1
C423	065G0805475A2K Y	NO-SUGGEST CAP 0805 4.7UF 10% 10V X7R	1
FB407	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	1
FB409	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	1
FB401	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB405	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB404	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB408	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB408	071G 56V301 TA	CHIP BD 0805 300R/700mA FCM2012VF-301T07	1
FB404	071G 56V301 TA	CHIP BD 0805 300R/700mA FCM2012VF-301T07	1
FB405	071G 56V301 TA	CHIP BD 0805 300R/700mA FCM2012VF-301T07	1

FB401	071G 56V301 TA	CHIP BD 0805 300R/700mA FCM2012VF-301T07	1
ZD101	093G 39GA01 T	RLZ5.6B	1
D401	093G 39GA01 T	RLZ5.6B	1
ZD102	093G 39GA01 T	RLZ5.6B	1
D402	093G 39GA01 T	RLZ5.6B	1
D403	093G 39GA01 T	RLZ5.6B	1
U102	356G0662056	TEST ONLY AT2042K6-5.0TRG1 SOT-23-6	1
U106	356G0662056	TEST ONLY AT2042K6-5.0TRG1 SOT-23-6	1
U103	356G0662056	TEST ONLY AT2042K6-5.0TRG1 SOT-23-6	1
U107	356G0662056	TEST ONLY AT2042K6-5.0TRG1 SOT-23-6	1
U104	356G0662056	TEST ONLY AT2042K6-5.0TRG1 SOT-23-6	1
D101	393G006404200P00HF	HF BAV70_R1_00001 0.5A 100V SOT-23	1
D102	393G006404200P00HF	HF BAV70_R1_00001 0.5A 100V SOT-23	1
E715	715G4502M01000004C	MAIN PCB FR4 DS 80X72+1.6(mm)	1
E715	715G4502M01000004L	MAIN PCB FR4 DS 80X72X1.6mm	1
	H40G 45762429A	LABEL	1
	H37G0026012	HINGE	1
	H44GD0151010KM	CUSHION-T	1
	H44GD0152010KM	CUSHION-B	1
	J40G000261574B	CARTON LABEL	1
	J40G024N61526A	RATING LABEL	1.02
	J44GD01561501B00GS	ARTWORK CARTON	1
	J45G990100010100SZ	PROTECT BAG	1
	J52G1801 3 1A	MYLAR FOR UB	1
	J70G24C161508B	CD MANUAL e2450Swd	1
	KEPCCJB1	KEY BOARD	1
LED001	081G 12 1F GH	LED GREEN/YELLOW GHZYG603D2-5B	1
LED001	081G 12 1F GP	LED Yellow/Green GP32032M/G307-ZY-50-C	1
CN001	095G820H 6DE10	HARNESS 6P(SANW)-6P(2008) 120mm	1
CN001	095G820H 6WE10	HARNESS 6P(SANW)-6P(2008) 120mm	1
	SMTKEPCBJA5	KEY BOARD FOR SMT	1
R002	061G0603000 FF	RST CHIPR MAX0R01 1/10W FENGHUA	1
R004	061G06031001FF	RST CHIPR 1 KOHM +-1% 1/10W FENGHUA	1
R004	061G06031001FT	RST CHIP 1K 1/10W 1%	1
R001	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	1
R003	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	1
	AIKEPCBJA5	KEY BOARD FOR AI	1

SW005	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	1
SW004	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	1
SW003	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	1
SW002	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	1
SW001	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	1
SW005	077G603S AI HC	TACT SW 2P 5mm 200g TS-6613F-5D	1
SW004	077G603S AI HC	TACT SW 2P 5mm 200g TS-6613F-5D	1
SW003	077G603S AI HC	TACT SW 2P 5mm 200g TS-6613F-5D	1
SW002	077G603S AI HC	TACT SW 2P 5mm 200g TS-6613F-5D	1
SW001	077G603S AI HC	TACT SW 2P 5mm 200g TS-6613F-5D	1
E715	715G4747K02000001C	KEY PCB FR1 SS 135*11*1.6mm	1
E715	715G4747K02000001M	KEY PCB FR1 SS 135X11+1.6(mm)	1
	PLPCBD591KZA1	ADAPTER BOARD --	1
GND1	009G6005 1	GND TERMINAL	1
U902	056G 139 9	IC EL817M(X) photocoupler DIP-4	1
U902	056G 139 3A	PC123Y22FZOF SHARP	1
NR901	061G 58120MEX	RST NTCR 12OHM +/-20% 4A XINGSHUN	1
C908	063G107K474 6S	0.47UF +-10%	1
C908	063G107K474 UM	CAP X2 470NF 10% 275V	1
C907A	067G 40Z47015H	EC 47UF 20% 450V 13*36	1
C907	067G 40Z47015H	EC 47UF 20% 450V 13*36	1
C907A	067G 40Z47015L	EC 47UF 20% 450V 12.5*35	1
C907	067G 40Z47015L	EC 47UF 20% 450V 12.5*35	1
C809	067G 415330 9K	EC 33UF 20% 100V ED 8*12	1
C809	067G 415330 9L	EC 33UF 20% 100V RZW 8*11.5	1
L901	073G 174 65 H2	LINE FILTER 30mH MIN	1
L901	073G 174 65 S2	LINE FILTER 30mH MIN	1
L906	073G 253191 H	IND CHOKE 1.1uH DADON	1
L906	073G 253191 L	CHOKE COIL 1.1uH CC-007802	1
L801	073G 253214 H	CHOKE COIL 47UH 10% L470R HA	1
L801	073G 253214 DN	CHOKE COIL 47UH 10% LZ.CC013.G01 2.5A	1
T901	080GL22T 3 N3	X'FMR 490UH 7% 4UH YUVA-1656	1
CN901	087G 501 48 S	AC SOCKET 3PIN + 3 Hole	1
CN901	087G 501 48 DL	AC SOCKET 3PIN + 3 Hole	1
BD901	093G 50460514	BRIDGE KBP306G-05 3A 800V KBP	1
BD901	093G 50460515	BRIDGE KBP308G-C 3A 800V KBP	1
D901	093G 60325	SCHOTTKY SB5150 5A 150V DO-201AD	1

D901	093G 60335	DIODE SR515 5A/150V DO-201AD	1
D909	093G 60519	DIODE SR560-MK23 5A/60V DO-27 SECOS	1
D905	093G 60519	DIODE SR560-MK23 5A/60V DO-27 SECOS	1
D909	093G3006 1 1	31DQ06FC3 NIHON INTER	1
D905	093G3006 1 1	31DQ06FC3 NIHON INTER	1
CN902	095G 825 9D518	HARNESS 9P(SCN)-9P(PLUG) 120mm	1
CN902	095G 825 9X518	HARNESS 9P(SCN)-9P(PLUG) 120MM	1
	0Q1G 340 8140	SCREW Q1-SELF TAPING SCREW :Q x8.0	2
CN804	311GW200A06ABF	CONN 2.0mm 6P R/A A020004106RD0A 16mm	1
CN804	311GW200A06ABX	WAFER 2.0mm 6P	1
	705GJB57006	Q901 ASS'Y	1
	051G 200 1	OIL FOR DISAPPEAR	0.1
Q901	057G 667941	MOSFET P0765ATF 7 650 TO-220F	1
HS1	090G6064 1	HEAT SINK	1
	0M1G 930 8120	SCREW 3x8	1
	H40G 45762429A	LABEL	1.02
	PLBD591KZA1SMT	ADAPTER BOARD FOR SMT	1
U901	056G 379529	AC/DC CONVERTER IC LD7576AGR SOP-7	1
U801	056G 700 11	LED DRIVER OZ9998BGN-A1-0-TR SOP-16	1
Q801	057G 763 92	FET P8008HV 4A/80V SOP-8	1
Q801	057G 763947	MOSFET APM8005KCTRG 6A 80V SOP-8	1
R811	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	1
RJ801	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	1
R811	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R804	061G0805100 JF	RST CHIPR 10 OHM +-5% 1/8W FENGHUA	1
R804	061G0805100 JT	RST CHIP 10R 1/8W 5% TZAI YUAN	1
R916	061G08051002FF	RST CHIPR 10KOHM +-1% 1/8W FENGHUA	1
R916	061G08051002FT	RST CHIP 10K 1/8W 1%	1
R907	061G0805102 JF	RST CHIPR 1K OHM +-5% 1/8W FENGHUA	1
R806	061G0805102 JF	RST CHIPR 1K OHM +-5% 1/8W FENGHUA	1
R806	061G0805102 JT	RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN	1
R907	061G0805102 JT	RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN	1
R918	061G0805103 JF	RST CHIPR 10K OHM +-5% 1/8W FENGHUA	1
R818	061G0805103 JF	RST CHIPR 10K OHM +-5% 1/8W FENGHUA	1
R928	061G0805103 JF	RST CHIPR 10K OHM +-5% 1/8W FENGHUA	1
R801	061G0805103 JF	RST CHIPR 10K OHM +-5% 1/8W FENGHUA	1
R928	061G0805103 JT	RST 0805 10K 5% 1/8W	1

R818	061G0805103 JT	RST 0805 10K 5% 1/8W	1
R801	061G0805103 JT	RST 0805 10K 5% 1/8W	1
R918	061G0805103 JT	RST 0805 10K 5% 1/8W	1
R805	061G0805104 JF	RST CHIPR 100KOHM +-5% 1/8W FENGHUA	1
R805	061G0805104 JT	RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN	1
R808	061G0805109 JF	RST CHIPR 1 OHM +- 5% 1/8W FENGHUA	1
R807	061G0805109 JF	RST CHIPR 1 OHM +- 5% 1/8W FENGHUA	1
R808	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	1
R807	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	1
R815	061G0805164 JF	RST 0805 160K 5% 1/8W	1
R815	061G0805164 JT	RST 0805 160K 5% 1/8W	1
R810	061G08052002FF	RST CHIPR 20KOHM +-1% 1/8W FENGHUA	1
R810	061G08052002FT	RST CHIP 20K 1/8W 1%	1
R920	061G0805202 JF	RST CHIPR 2KOHM +-5% 1/8W FENGHUA	1
R920	061G0805202 JT	RST CHIP 2K 1/8W 5% TZAI YUAN	1
R919	061G0805221 JF	RST CHIPR 220 OHM +-5% 1/8W FENGHUA	1
R919	061G0805221 JT	RST CHIP 220R 1/8W 5% TZAI YUAN	1
R802	061G0805304 JF	RST CHIPR 300KOHM +-5% 1/8W FENGHUA	1
R803	061G0805304 JF	RST CHIPR 300KOHM +-5% 1/8W FENGHUA	1
R802	061G0805304 JT	RST CHIP 300K 1/8W 5% TZAI YUAN	1
R803	061G0805304 JT	RST CHIP 300K 1/8W 5% TZAI YUAN	1
R809	061G08053303FF	RST CHIP 330K 1/8W 1%	1
R809	061G08053303FT	RST CHIP 330K 1% 1/8W	1
R816	061G08054701FF	RST CHIPR 4.7KOHM +-1% 1/8W FENGHUA	1
R816	061G08054701FT	RST CHIP 4K7 1/8W 1%	1
R905	061G0805471 JF	RST CHIPR 470 OHM +-5% 1/8W FENGHUA	1
R905	061G0805471 JT	RST CHIPR 470OHM +-5% 1/8W TZAI YUAN	1
R925	061G08059101FF	RST CHIPR 9.1KOHM +-1% 1/8W FENGHUA	1
R925	061G08059101FT	RST CHIP 9K1 1/8W 1%	1
RJ803	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	1
F801	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	1
RJ803	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
F801	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	1
R917	061G1206100 JF	RST CHIPR 10 OHM +-5% 1/4W FENGHUA	1
R917	061G1206100 JT	RST CHIPR 10 OHM +-5% 1/4W TZAI YUAN	1
R814	061G12061009FF	RST CHIP 10 OHM 1% 1/4W FENGHUA	1
R814	061G12061009FT	RST CHIP R 10ohm 1/4W +/-1%	1

R930	061G1206101 JF	RST CHIPR 100 OHM +-5% 1/4W FENGHUA	1
R910	061G1206101 JF	RST CHIPR 100 OHM +-5% 1/4W FENGHUA	1
R929	061G1206101 JF	RST CHIPR 100 OHM +-5% 1/4W FENGHUA	1
R912	061G1206101 JF	RST CHIPR 100 OHM +-5% 1/4W FENGHUA	1
R903	061G1206101 JF	RST CHIPR 100 OHM +-5% 1/4W FENGHUA	1
R909	061G1206101 JF	RST CHIPR 100 OHM +-5% 1/4W FENGHUA	1
R903	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	1
R929	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	1
R912	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	1
R930	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	1
R910	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	1
R909	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	1
R911	061G1206103 JF	RST CHIPR 10KOHM +-5% 1/4W FENGHUA	1
R908	061G1206103 JF	RST CHIPR 10KOHM +-5% 1/4W FENGHUA	1
R908	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	1
R911	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	1
R913	061G1206109 JF	RST CHIPR 1 OHM +-5% 1/4W FENGHUA	1
R913	061G1206109 JT	RST CHIPR 1 OHM +-5% 1/4W TZAI YUAN	1
R813	061G12062007FF	RST CHIPR 0.2 OHM +-1% 1/4W FENGHUA	1
R812	061G12062007FF	RST CHIPR 0.2 OHM +-1% 1/4W FENGHUA	1
R813	061G12062007FT	RST 1206 0.2R 1% 1/4W SMD12060R2	1
R812	061G12062007FT	RST 1206 0.2R 1% 1/4W SMD12060R2	1
R923	061G1206221 JF	RST CHIPR 220 OHM +-5% 1/4W FENGHUA	1
R923	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	1
R901	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	1
R900	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	1
R902	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	1
R901	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	1
R900	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	1
R902	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	1
R817	061G1206681 JF	RST 1206 680R 5% 1/4W FENGHUA	1
R817	061G1206681 JT	RST CHIPR 680 OHM +-5% 1/4W TZAI YUAN	1
C813	065G080510131J F	CAP CHIP 0805 100PF J 50V NPO	1
C812	065G080510131J F	CAP CHIP 0805 100PF J 50V NPO	1
C812	065G080510131J Y	CAP CHIP 0805 100P 50V NPO +/-5%	1
C813	065G080510131J Y	CAP CHIP 0805 100P 50V NPO +/-5%	1
C923	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	1

C914	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	1
C803	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	1
C906	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	1
C815	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	1
C923	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C914	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C803	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C906	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C815	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C802	065G080510332K F	CAP 0805 10NF K 50V X7R	1
C915	065G080510332K F	CAP 0805 10NF K 50V X7R	1
C802	065G080510332K Y	CAP CHIP 0805 10N 50V X7R +/-10%	1
C915	065G080510332K Y	CAP CHIP 0805 10N 50V X7R +/-10%	1
C926	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	1
C912	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	1
C924	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	1
C814	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	1
C924	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C814	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C912	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C926	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C806	065G080522432K F	CAP 0805 220NF 10% 50V X7R	1
C807	065G080522432K F	CAP 0805 220NF 10% 50V X7R	1
C806	065G080522432K Y	CAP CHIP 0805 220N 50V X7R +/-10%	1
C807	065G080522432K Y	CAP CHIP 0805 220N 50V X7R +/-10%	1
C804	065G080547432K T	CAP CHIP 0805 0.47UF K 50V X7R	1
C811	065G080547432K T	CAP CHIP 0805 0.47UF K 50V X7R	1
C810	065G080547432K T	CAP CHIP 0805 0.47UF K 50V X7R	1
C810	065G080547432K Y	CAP CHIP 0805 470N 50V X7R +/-10%	1
C804	065G080547432K Y	CAP CHIP 0805 470N 50V X7R +/-10%	1
C811	065G080547432K Y	CAP CHIP 0805 470N 50V X7R +/-10%	1
C808	065G120610171J Y	CAP 1206 100PF 5% 500V NPO	1
C917	065G120622272K Y	CER 1206 2N2 500V X7R 10%	1
C929	065G120622272K Y	CER 1206 2N2 500V X7R 10%	1
C916	065G120622272K Y	CER 1206 2N2 500V X7R 10%	1
C928	065G120622272K Y	CER 1206 2N2 500V X7R 10%	1
C928	065G1206222B2K M	Panasonic Assign 1206 2.2NF 10% 630V X7R	1

C917	065G1206222B2K M	Panasonic Assign 1206 2.2NF 10% 630V X7R	1
C916	065G1206222B2K M	Panasonic Assign 1206 2.2NF 10% 630V X7R	1
C929	065G1206222B2K M	Panasonic Assign 1206 2.2NF 10% 630V X7R	1
D801	093G 60S509 T	SCHOTTKY BR310 T/R 3A 100V SMB	1
D801	093G 60S907 T	SCHOTTKY B3100B 3A 100V SMB	1
	PLBD591KZA1AI	ADAPTER BOARD FOR AI	1
CN901	006G 31500	EYELET	3
	040G 45762420A	LABEL 25x6mm	0.51
IC903	056G 158 10 T	DC/DC AS431AZTR-E1 150MA 40V TO-92	1
IC903	056G 158 12	Shunt Regulator KIA431A-AT/P TO-92	1
Q904	057G 530503 T	2SD1207T	1
Q904	057G 761 16	TRA KTD1028 KEC	1
R915	061G 17222052T TZ	RST CFR 22R 5% 1/4W	1
R915	061G 17222052T XZ	RST CFR 22 OHM +-5% 1/4W XIANZHENG	1
R906	061G152M10452T SY	RST MOFR 100KOHM +-5% 2WS FUTABA	1
R904	061G152M25152T SY	RST MOF 250R 5% 2W	1
R924	061G152M47852T HX	RST MOFR 0.47 OHM +-5% 2WS	1
R924	061G152M47852T SY	RST MOFR 0.47 OHM +-5% 2WS FUTABA	1
C911	065G 2K152 2T6213	CAP CER 1.5NF 10% 2KV Y5P	1
C911	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	1
C805	065G250K1052HT	CAP CER 1UF 10% 25V X7R	1
C903	065G305M1023PR	CAP Y2 1NF 20% 250V Y5U	1
C902	065G305M1023PR	CAP Y2 1NF 20% 250V Y5U	1
C903	065G305M1023WR	CAP Y2 1NF 20% 250V Y5U	1
C902	065G305M1023WR	CAP Y2 1NF 20% 250V Y5U	1
C900	065G306M2223PR	CAP Y1 2.2NF 20% 250V Y5U YU0AH222M090XA	1
C927	065G500K4732GT	CAP JC 47NF 10% 50V X7R	1
C927	065G500K4732HT	CAP CER 47NF 10% 50V X7R	1
C816	065G517K102 2T6921	CAP CER 1000PF K 500V Y5P	1
C920	067G 2046812KT	CAP CS 680UF 20% 10V 8*11 3900mA GP1A6	1
C920	067G 2046812LT	CAP CS 680UF 20% 10V 8*11.5 2000 hr 3900	1
C801	067G215D3314KT	EC 330UF 20% 25V 10*12 ED	1
C918	067G215D6814KT	EC 680UF 20% 25V 10*20 ED ED1E681MPN1020	1
C922	067G215S4713KT	EC 470UF 20% 16V 10*13 ED 4000 hr 1030mA	1
C913	067G215Y4707KT	EC 47uF 20% 50V 6.3*11mm EG	1
FB801	071G 55 29	FERRITE BEAD	1
FB901	071G 55 29	FERRITE BEAD	1

FB903	071G 55 29	FERRITE BEAD	1
FB902	071G 55 29	FERRITE BEAD	1
FB802	071G 55 29	FERRITE BEAD	1
FB801	071G 55 29 X	BEAD 3.5X2.2X0.8 45R 25% 3BDR3522-453A	1
FB903	071G 55 29 X	BEAD 3.5X2.2X0.8 45R 25% 3BDR3522-453A	1
FB802	071G 55 29 X	BEAD 3.5X2.2X0.8 45R 25% 3BDR3522-453A	1
FB901	071G 55 29 X	BEAD 3.5X2.2X0.8 45R 25% 3BDR3522-453A	1
FB902	071G 55 29 X	BEAD 3.5X2.2X0.8 45R 25% 3BDR3522-453A	1
F901	084G 56 4 B	FUSE 4A 250V	1
F902	084G 56 4 B	FUSE 4A 250V	1
F901	084G 56 4W	FUSE 4A 250V	1
F902	084G 56 4W	FUSE 4A 250V	1
ZD901	093G 3916352T	ZD TZX22B	1
ZD901	093G 39A6852T	ZENER MTZJ22B 21.51V 0.5W DO-35	1
D904	093G 6026T52T	CTIFIER DIODE FR107	1
D903	093G 6026T52T	CTIFIER DIODE FR107	1
D904	093G 60964	RECTIFIER PS1010R T/B 1A 1000V DO-41	1
D903	093G 60964	RECTIFIER PS1010R T/B 1A 1000V DO-41	1
D907	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	1
J902	095G 90 23	JUMP WIRE - -	1
J807	095G 90 23	JUMP WIRE - -	1
J808	095G 90 23	JUMP WIRE - -	1
J906	095G 90 23	JUMP WIRE - -	1
J904	095G 90 23	JUMP WIRE - -	1
J804	095G 90 23	JUMP WIRE - -	1
J901	095G 90 23	JUMP WIRE - -	1
J815	095G 90 23	JUMP WIRE - -	1
J803	095G 90 23	JUMP WIRE - -	1
J905	095G 90 23	JUMP WIRE - -	1
J813	095G 90 23	JUMP WIRE - -	1
J910	095G 90 23	JUMP WIRE - -	1
J921	095G 90 23	JUMP WIRE - -	1
J806	095G 90 23	JUMP WIRE - -	1
J903	095G 90 23	JUMP WIRE - -	1
J801	095G 90 23	JUMP WIRE - -	1
J908	095G 90 23	JUMP WIRE - -	1
J810	095G 90 23	JUMP WIRE - -	1

J812	095G 90 23	JUMP WIRE - -	1
J809	095G 90 23	JUMP WIRE - -	1
J909	095G 90 23	JUMP WIRE - -	1
J811	095G 90 23	JUMP WIRE - -	1
J805	095G 90 23	JUMP WIRE - -	1
J802	095G 90 23	JUMP WIRE - -	1
J907	095G 90 23	JUMP WIRE - -	1
C801	367G215X3314AT	EC 330UF 20% 25V 10*12 RF	1
C913	367G215X4707AT	EC 47uF 20% 50V - 6.3*11mm RG	1
C922	367G415X4713AT	EC 470uf 20% 16V 10X13 RS	1
C918	367G415X6814AT	EC 680uf 20% 25V 10x20 RS	1
E715	715G4744P02000001C	PWR PCB FR1 SS 193X132+1.6(mm)	1
E715	715G4744P02000001M	PWR PCB FR1 SS 195*132*1.6MM	1
	Q51G 6 4509	GLUE_RTV	1
T901	S80GL22T3V3	X'FMR 490UH 7% 4UH P-C28-144	1
	Q12G6600 6	FOOT	4
	Q33G0504ABJ 1B0100	STAND_TOP	1
	Q33G0505ABJ 1L0100	COVER_HINGE	1
	Q34G7395ABJ 1B0100	STAND	1
	Q34G7396AED01B0100	BASE	1
	Q40G000162471A	CARTON LABEL+BARCODE FOR 1	1.02
	Q52G6025 13155	INSULATING SHEET	1
E09501	S95G179T30PE38	FFC CABLE 30P 215mm 1.0MM	1